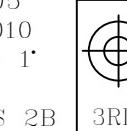


REVISION HISTORY					
REV	DATE	DESCRIPTION	AUTHOR	CHECKED BY	APPROVED
NC	10/02/17	ADDED -17, -18 & -19 AND -20. REMOVED -14 & -15 SOCKET STRIPS; -10 CHANGED RIVET HOLE SPACING FROM 0.570 TO 0.590; ON -1 AND -2 CHANGED SCREWS TO CAD PLATE AND S.S. ALTERNATES. ADDED BEND CHART TO -17; ON -11 REMOVED LIGHTENING HOLES.	JT	LS	JT
A	03/15/18	ADDED NEW SHT 1 AND MOVED CHANGE DESCRIPTION; SHT 2 ADDED NOTE 5, ADDED SECTION B-B, MADE #11 REF, ITEM #26 WAS RT-6000-1, ITEM #2 WAS ES50184-1, ITEM #4 WAS ES50900-2, DELETED ITEM #11 MS20426AD4-4.5, ITEM #26 NAS662C2R8 WAS ITEM #16 MS24693S17; ON SHT 2 AND 3 ADDED FASTENER TORQUES; SHT 3 MOVED WASHERS UNDER NUTS AND REMOVED RT-6100-14 ISOLATOR IN MAIN VIEW; -10 MOVED FRONT LEFT HOLES AND VOLTMETER WINDOW RIGHT .2", REMOVED 2X DIA .129 HOLES ON RIGHT SIDE VIEW.	EW	LS	EW
B	7/26/18	SHT 1 ADDED NOTE 6; SHT 2 ADDED NOTE 8; -11 FLAT PATTERN BASE FLANGE WIDTH WAS 6.833, OFFSET BEND #2 TAB DOWN TO 6.264; -20 P/N WAS MS23053/5-105-2, ADDED ALT. P/N.	EW	LS	CMK
C	1/4/19	ADDED DIODE ARRAY ES50191-4 WITH MOUNTING HOLE IN -10 AND ASSOCIATED HARDWARE	CMK	LS	CMK
D	5/10/19	ADDED NEW DISPLAY MOUNTING HOLES TO -10 ENCLOSURE; ADDED NEW ES59350-2 OLED DISPLAY; ADDED ES50900-2 STANDOFFS AND REMOVED SCREWS WITH SPACERS;	CMK	LS	CMK
E	10/1/19	-11 ADDED 2 HOLES FOR SENSOR BRACKET; -1 REMOVED RT-6120-14/-16/-17 PLACARDS; -1 ADDED RT-1000-86 BAR, ES50191-5 DIODE, AND ASSOCIATED HARDWARE	CMK	L	CMK

	TITLE		DRAWING NUMBER	
	CONTROL BOX ASSEMBLY		RT-6100	
DIMENSIONS IN INCHES		TOLERANCES EXCEPT WHERE NOTED:		REV E
.X = ±.1	.XX = ±.05	.XXX = ±.010	ANGLES = ± 1°	
DRAWN BY KEW	CHK'D BY LS	APPRVD. BY 9/8/16	DATE	ECO
		DO NOT SCALE DRAWING		SHEET
PROTO		© 2017 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.		1 OF 17

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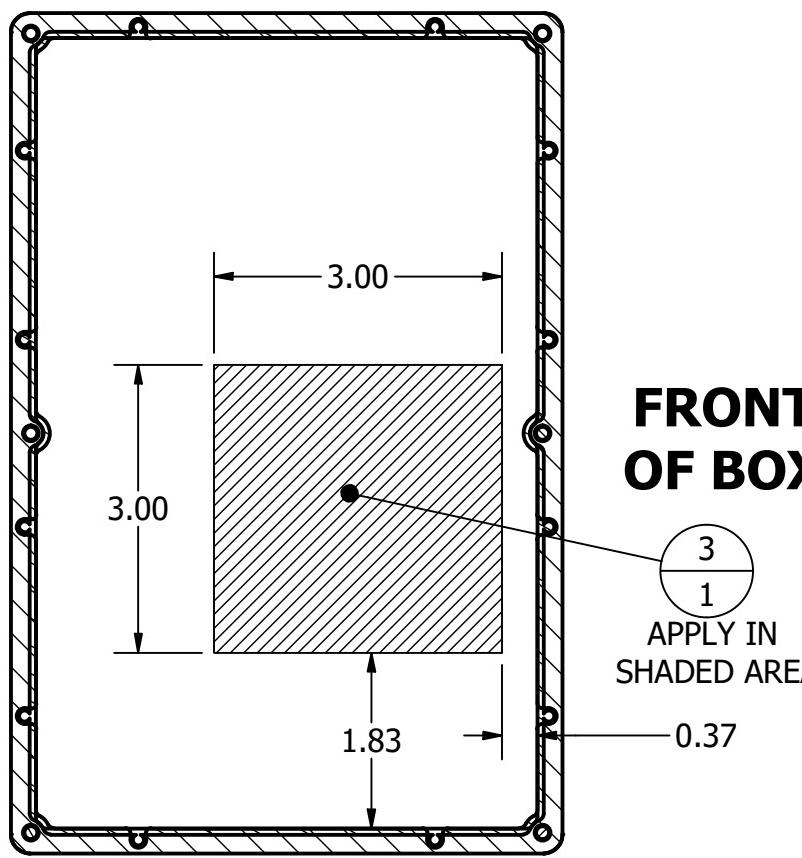
-1 CONTROL BOX ASSEM **(SHEET 1)**

NOTE:

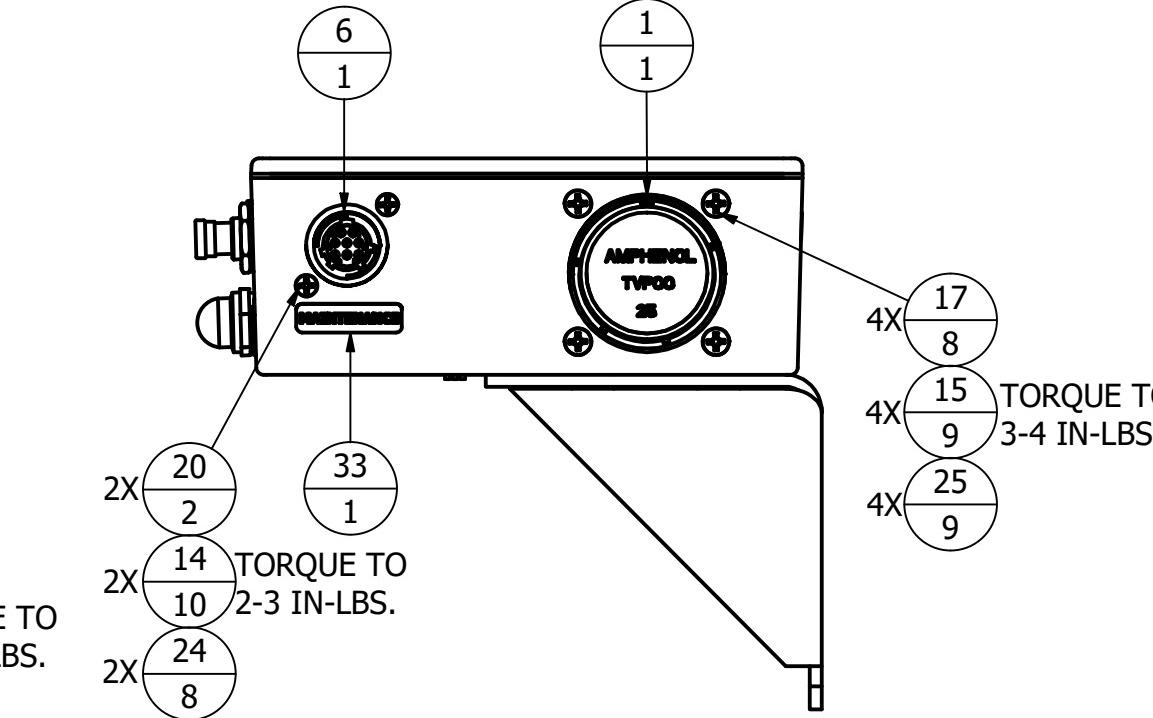
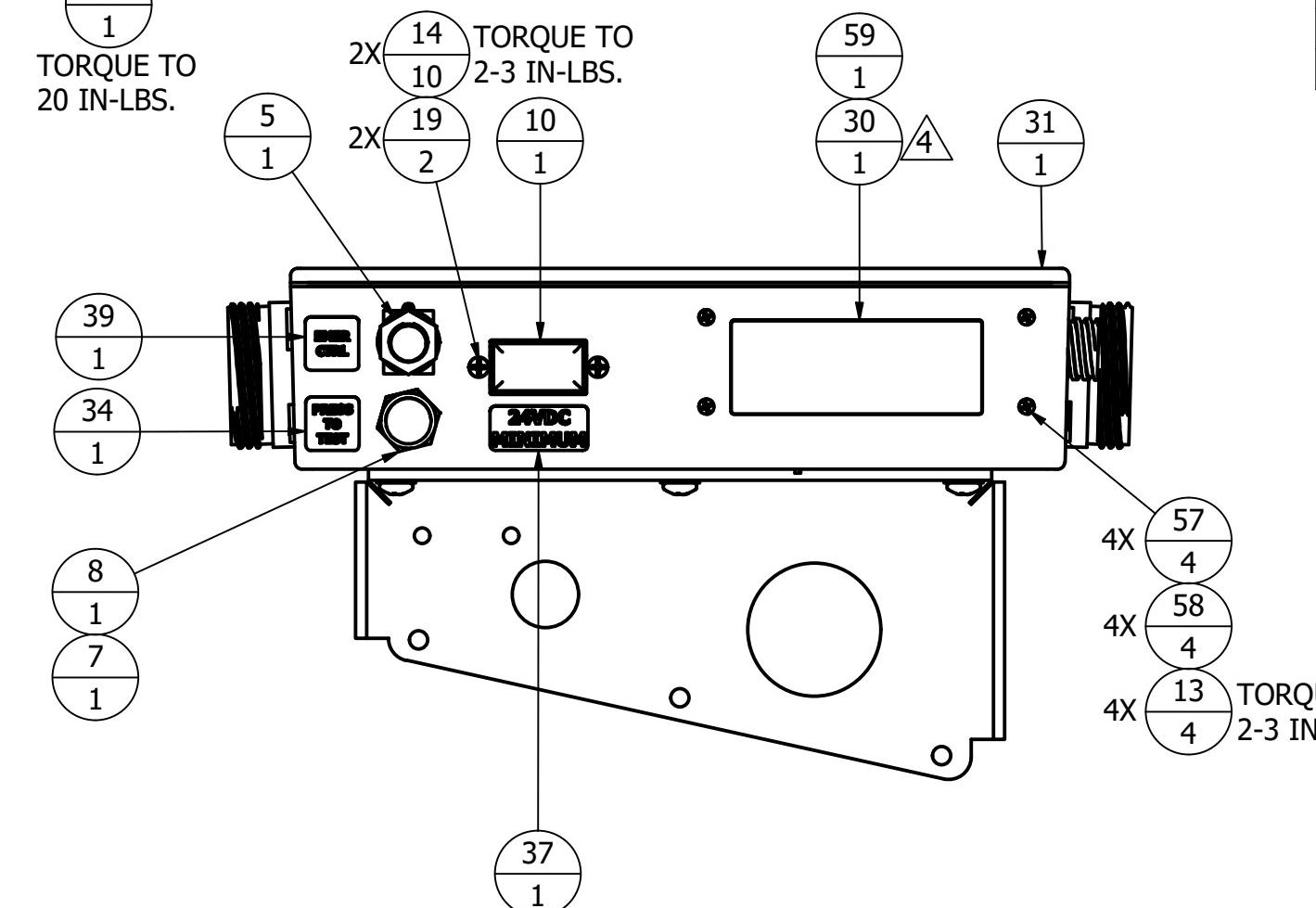
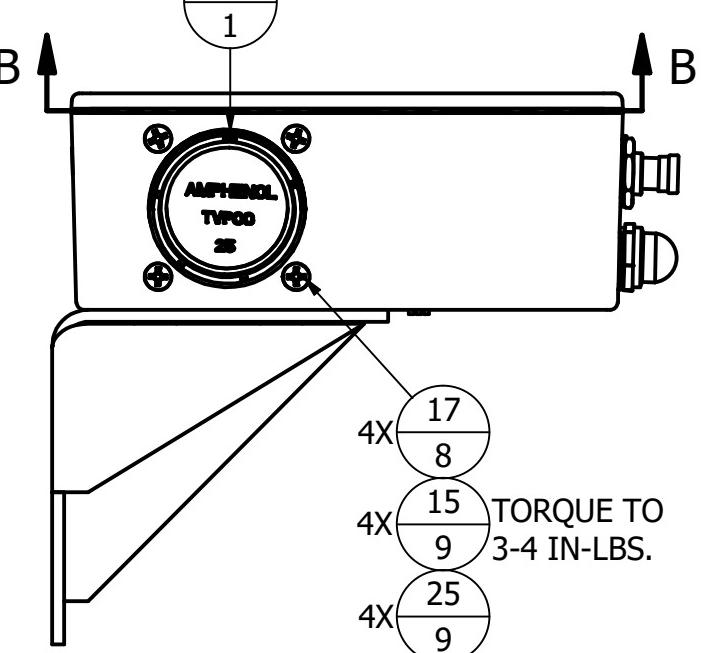
1. WIRE PER ITEM #26
2. WIRE INDIVIDUAL COMPONENTS BEFORE INSTALLING
3. COVER AND COVER HARDWARE NOT SHOWN. APPLY LOCTITE RED 26250 THREAD LOCKER OR EQUIVALENT TO COVER HARDWARE WHEN INSTALLED.
4. SEAL MATING SURFACES W/ PEMATEX BLACK RTV #168 OR EQUIV.

^

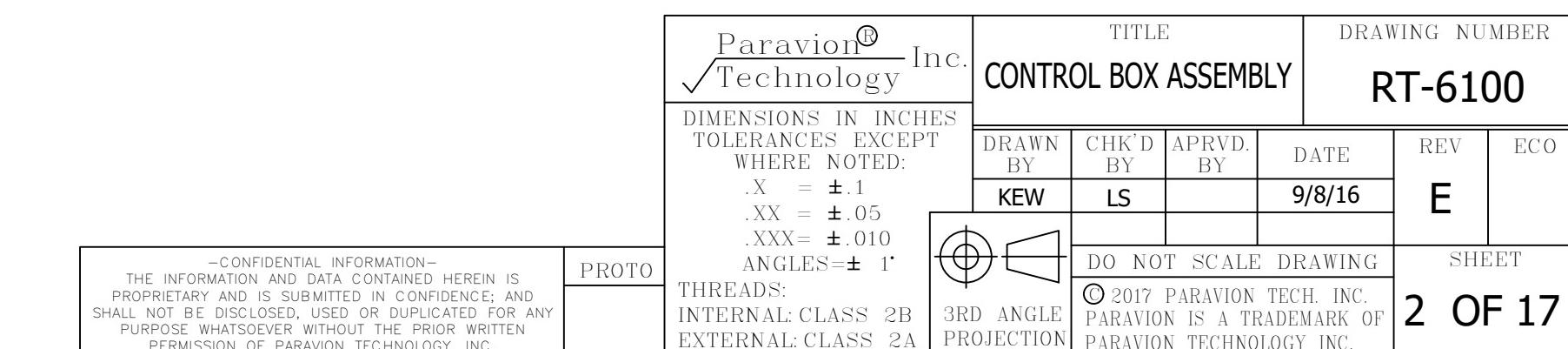
 ELECTRICALLY AND THERMALLY BOND TO ENCLOSURE WITH ES09300-



SECTION B-B (INSIDE OF LID)



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	D38999/20WJ20PNLC	RECEPTACLE
2	1	D38999/20WJ90SNLC	RECEPTACLE
3	9 IN	ES06024-1	PTFE TAPE
5	1	ES50184-3	CIRCUIT BREAKER
6	1	ES50239-1	PLUG
7	1	ES50601-1	PUSH BUTTON SWITCH
8	1	ES59060-1	BOOT
10	1	ES59360-1	VOLTMETER
11	1	M81714-2-DB1	TERMINAL JUNCTION MODULE (REF)
12	1	M81714-63-20F	GROUND MODULE
13	4	MS21042L02	NUT
14	10	MS21042L04	NUT
15	9	MS21042L06	NUT
16	2	MS21042L3	NUT
17	8	MS24693S27	SCREW (ALT. MS24693C27)
18	2	MS24693S271	SCREW (ALT. MS24693C271)
19	2	MS24693S3	SCREW (ALT. MS24693C3)
20	2	MS24693S4	SCREW (ALT. MS24693C4)
21	6	MS24693S5	SCREW (ALT. MS24693C5)
22	2	NAS1149D0332J	WASHER
24	8	NAS1149DN432J	WASHER
25	9	NAS1149DN632J	WASHER
27	1	RT-6000-3	CONTROL BOX ELECTRICAL SCHEMATIC
28	1	RT-6100-13	ISOLATOR
29	1	RT-6100-18	JUMPER BRACKET
30	1	RT-6100-19	ELECTRONIC BOX WINDOW
31	1	RT-6100-2	ENCLOSURE ASSEM
32	1	RT-6100-3	ELECTRONICS
33	1	RT-6120-12	LABEL
34	1	RT-6120-13	LABEL
39	1	RT-6120-19	LABEL
54	1	ES50191-4	DIODE ARRAY
55	1	MS24693-S28	SCREW
57	4	MS24693C17	SCREW
58	4	ES50900-2	STANDOFF
59	1	ES59350-2	OLED DISPLAY
60	1	MS21042L4	LOCKING NUT
61	1	NAS1149D0432J	WASHER
62	1	ES50191-5	DIODE
63	1	RT-1000-86	BAR
64	1	MS35206-227	SCREW

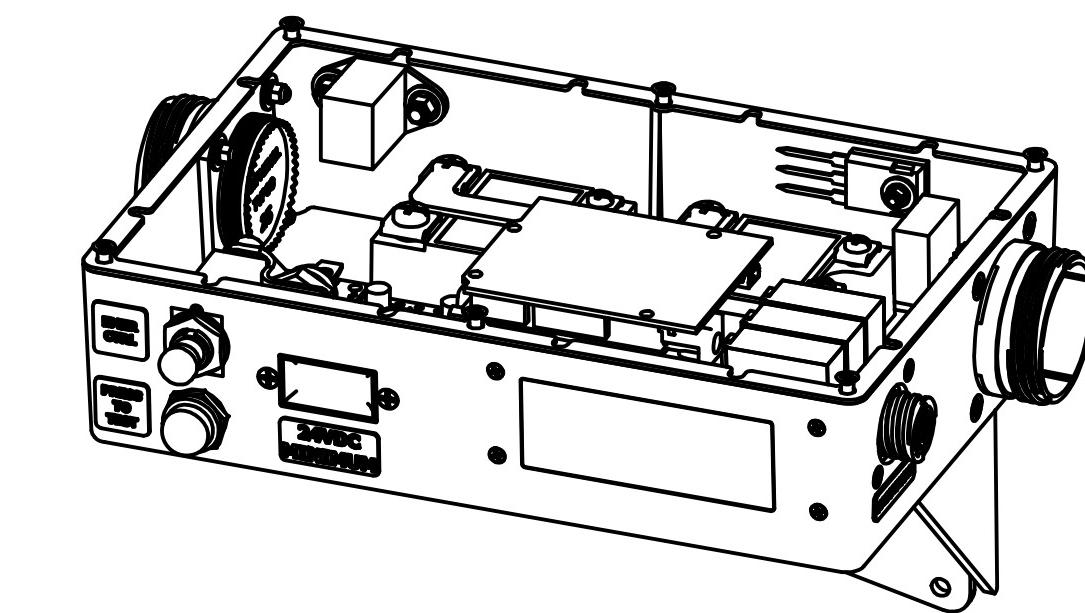
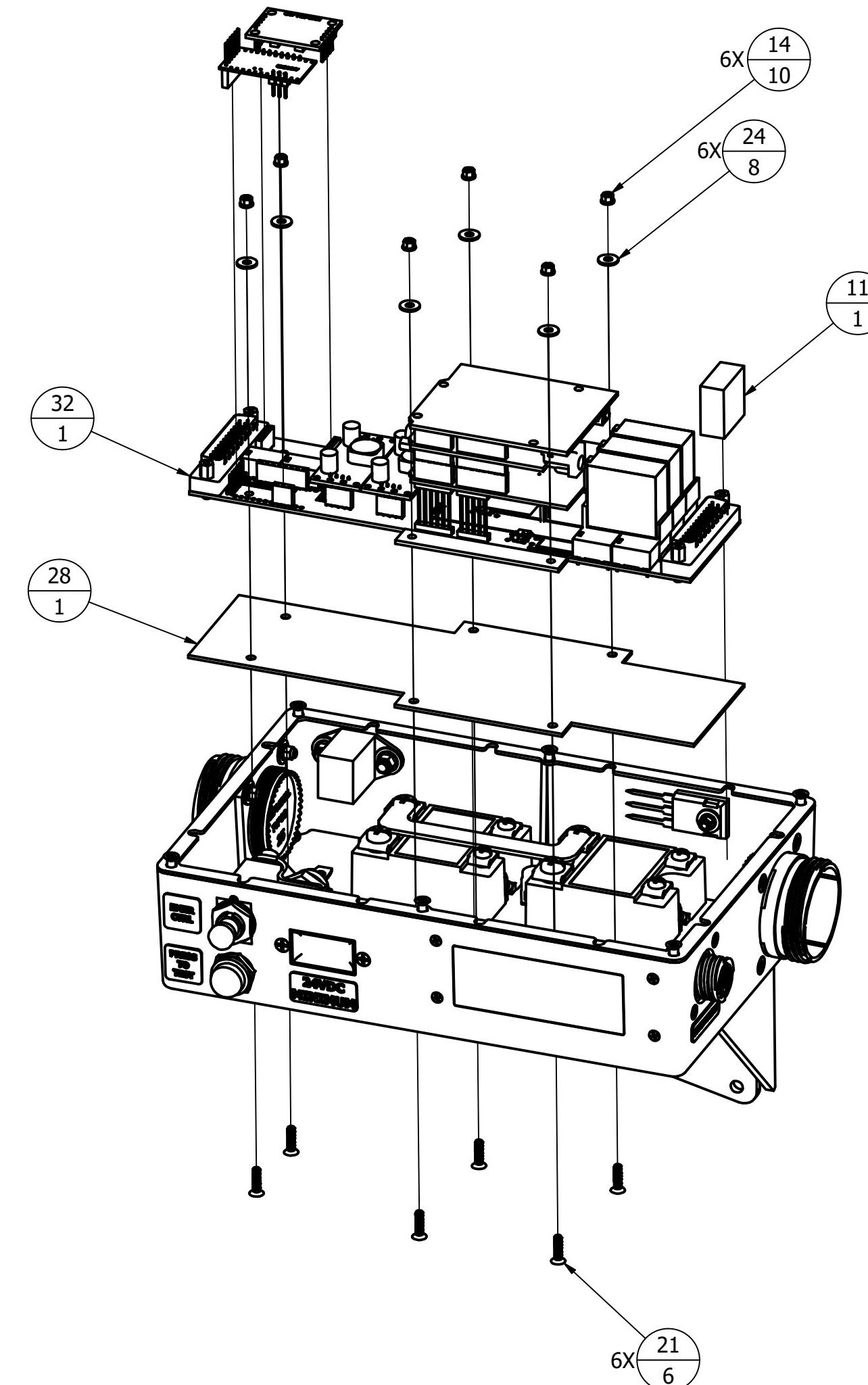


-1 CONTROL BOX ASSEM

(SHEET 2)

NOTE:

7. COVER AND COVER HARDWARE NOT SHOWN.
8. SOLDER ALL C.B. JOINTS IN ACCORDANCE WITH MIL-S-45473E.



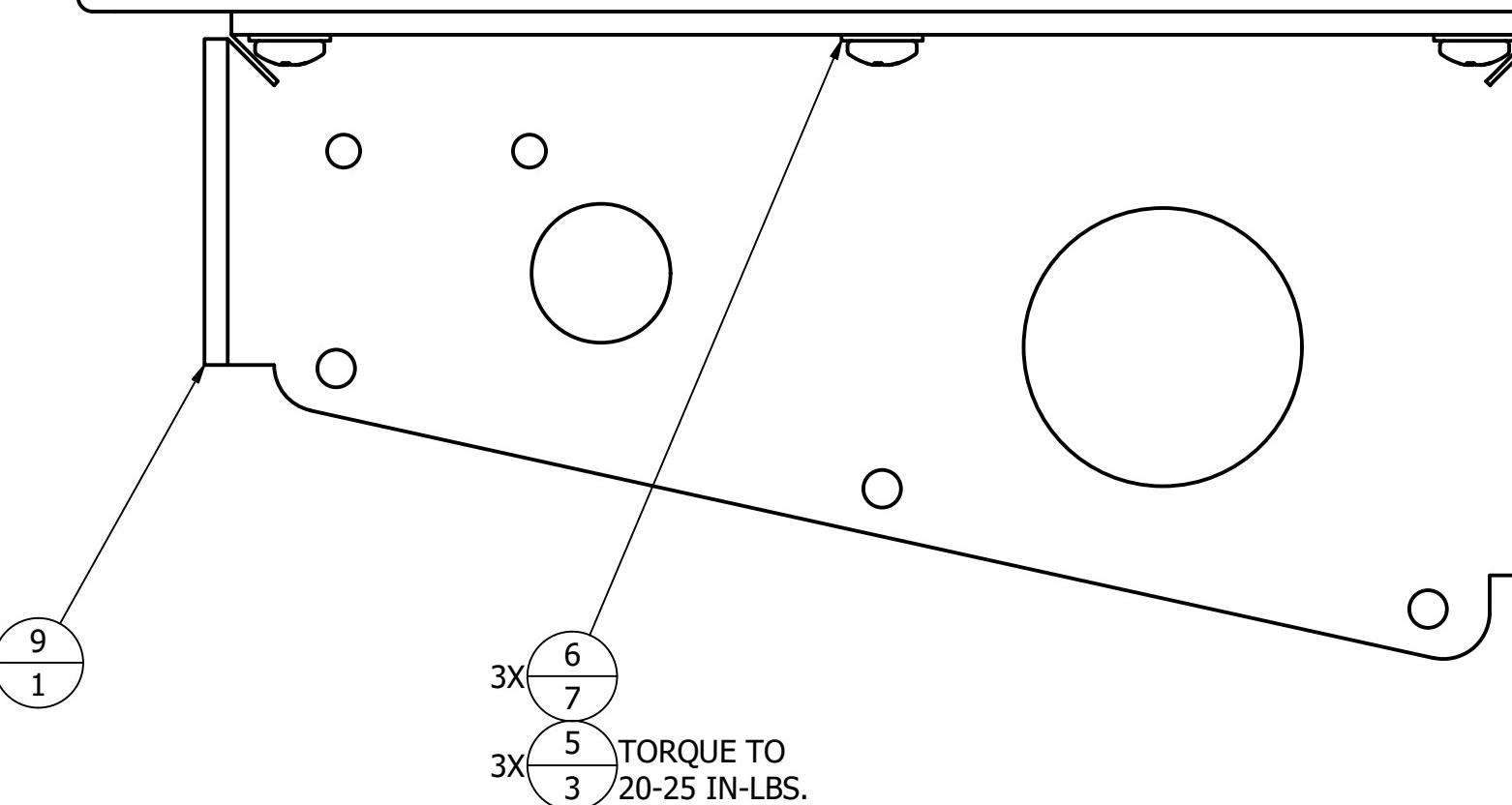
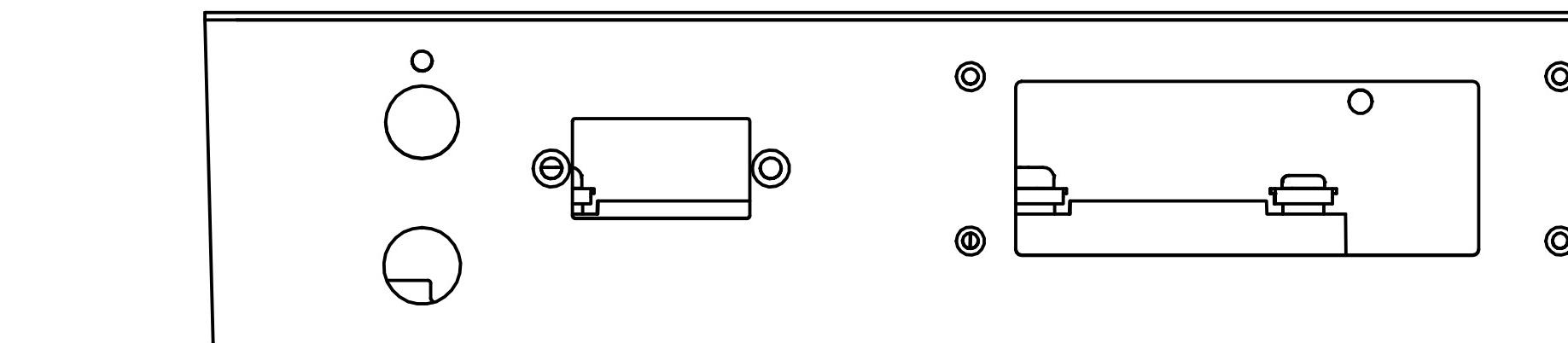
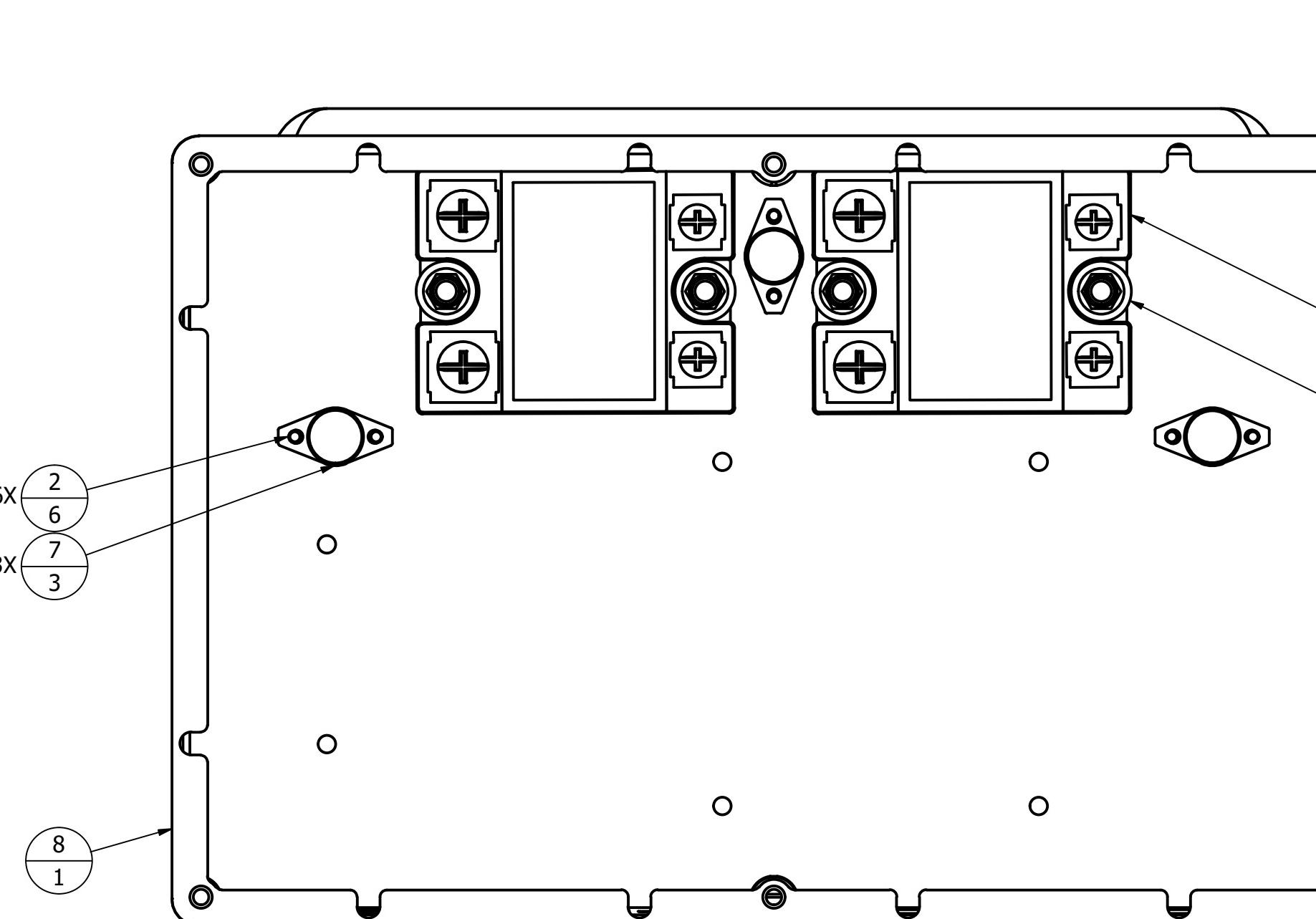
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PROTO

Paravion® Inc.		TITLE			DRAWING NUMBER	
		CONTROL BOX ASSEMBLY			RT-6100	
		DRAWN BY	CHK'D BY	APRVD. BY	DATE	REV
KEW	LS				9/8/16	E
		DO NOT SCALE DRAWING		ECO		
				SHEET		
		3 OF 17				

-2 ENCLOSURE ASSEM

NOTE:
1. COVER AND COVER HARDWARE NOT SHOWN



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	ES50183-1	SOLID STATE SWITCH
2	6	MS20426AD3-4	RIVET
3	4	MS21042L3	NUT
4	4	MS24693S272	SCREW (ALT. MS24693C272)
5	3	MS27039-1-09	SCREW
6	7	NAS1149D0332J	WASHER
7	3	NAS1474A3	10-32 SELF-LOCKING CAPPED NUTPLATE
8	1	RT-6100-10	ENCLOSURE
9	1	RT-6100-11	SUPPORT

TORQUE TO
5-6 IN-LBS.
INSTALL BEFORE (9)

4X (4) 4

2X (1) 2

4X (6) 7

4X (3) 4

3X (5) 3

6X (2) 6

2X (4) 4

3X (3) 3

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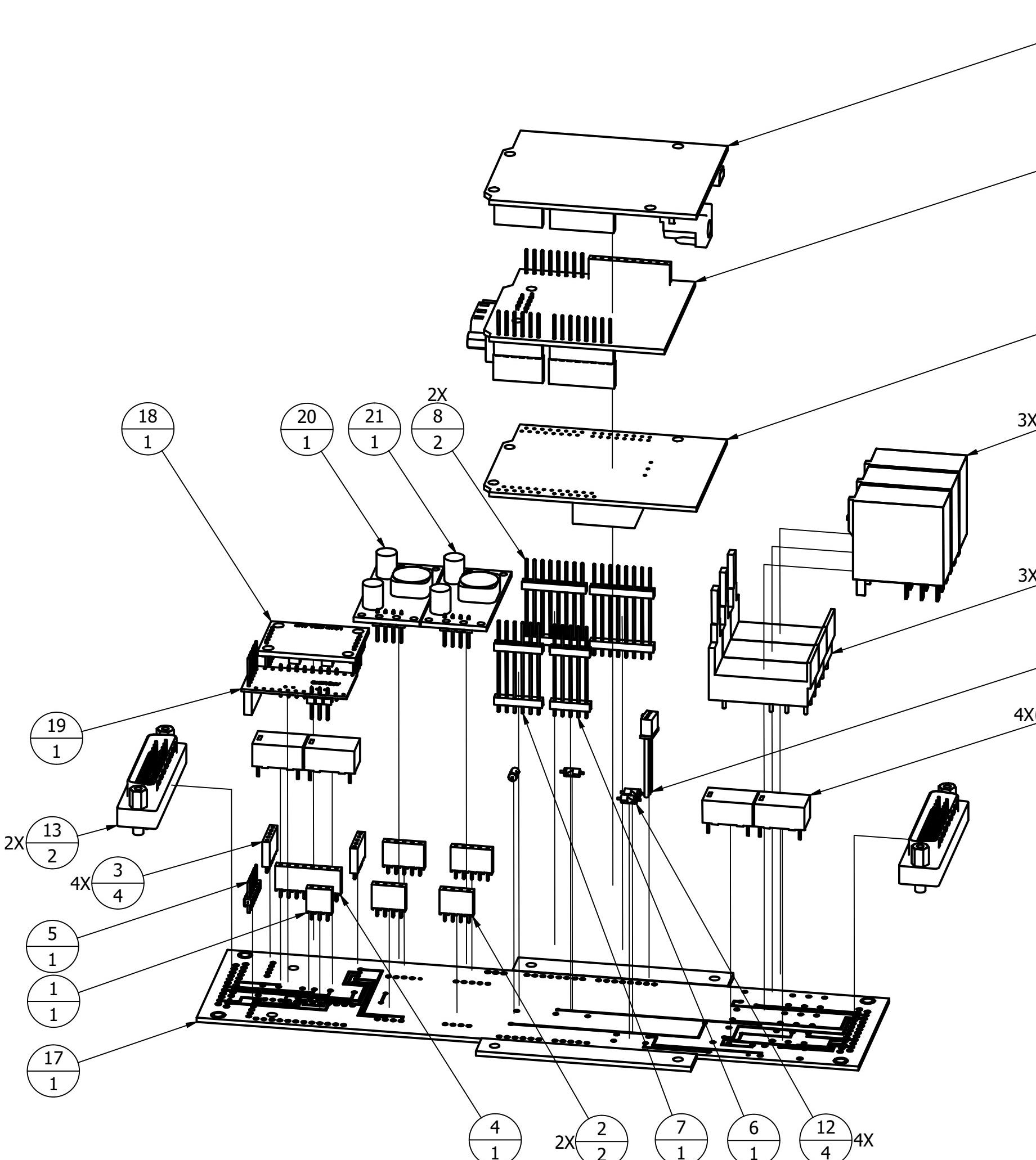
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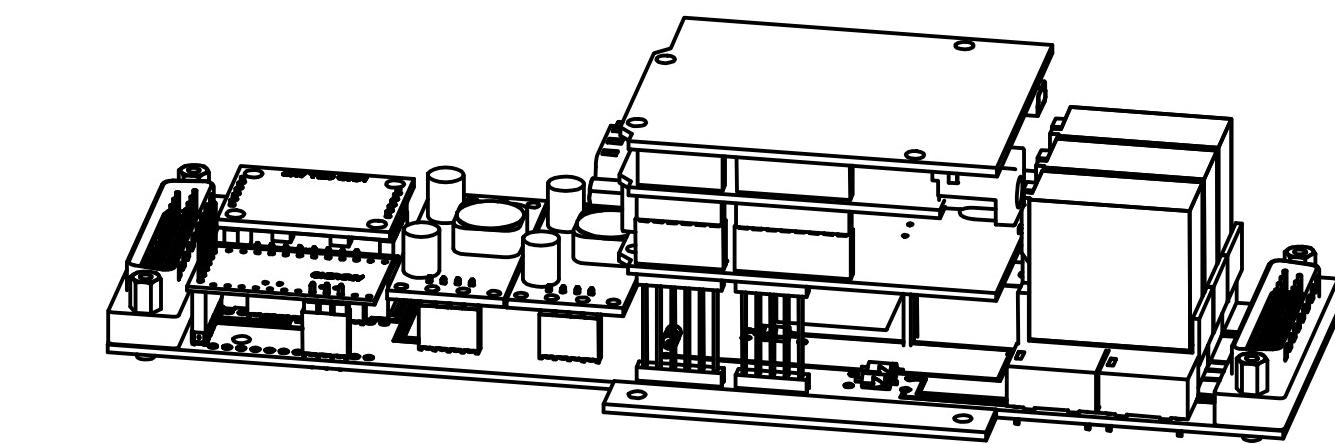
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-3 ELECTRONICS

NOTE:
 1. SOLDER ALL JOINTS IN ACCORDANCE WITH MIL-S-45473E
 2. ONCE ASSEMBLED SEAL PER MIL-I-46058C



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ES50015-4	SOCKET STRIP
2	2	ES50015-5	SOCKET STRIP
3	4	ES50015-6	SOCKET STRIP
4	1	ES50015-8	SOCKET STRIP
5	1	ES50020-4	TERMINAL STRIP
6	1	ES50025-1	BOARD STACKER
7	1	ES50025-2	BOARD STACKER
8	2	ES50025-3	BOARD STACKER
9	3	ES50040-1	RELAY HOLDER
10	3	ES50181-1	RELAY
11	4	ES50182-1	PCB RELAY
12	4	ES50191-1	DIODE
13	2	ES50235-1	D-SUB RECEPICAL
14	1	ES50733-1	REDBOARD
15	1	ES50735-1	RELAY SHIELD
16	1	ES59400-1	JUMP WIRE
17	1	RT-6100-12	MAIN CIRCUIT BOARD
18	1	RT-6100-4	LOAD CELL AMP ASSEM
19	1	RT-6100-5	ARDUINO PRO MINI ASSEM
20	1	RT-6100-6	VOLTAGE REGULATOR ASSEM
21	1	RT-6100-7	VOLTAGE REGULATOR ASSEM
22	1	RT-6100-8	CAN-BUS ASSEM



 Paravion® Inc. Technology	TITLE			DRAWING NUMBER	
	CONTROL BOX ASSEMBLY			RT-6100	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ± .1 .XX = ± .05 .XXX = ± .010 ANGLES = ± 1°					
DRAWN BY	CHK'D BY	APRVD. BY	DATE	REV	ECO
KEW	LS		9/8/16		
DO NOT SCALE DRAWING					
3RD ANGLE PROJECTION					
SHEET 5 OF 17					

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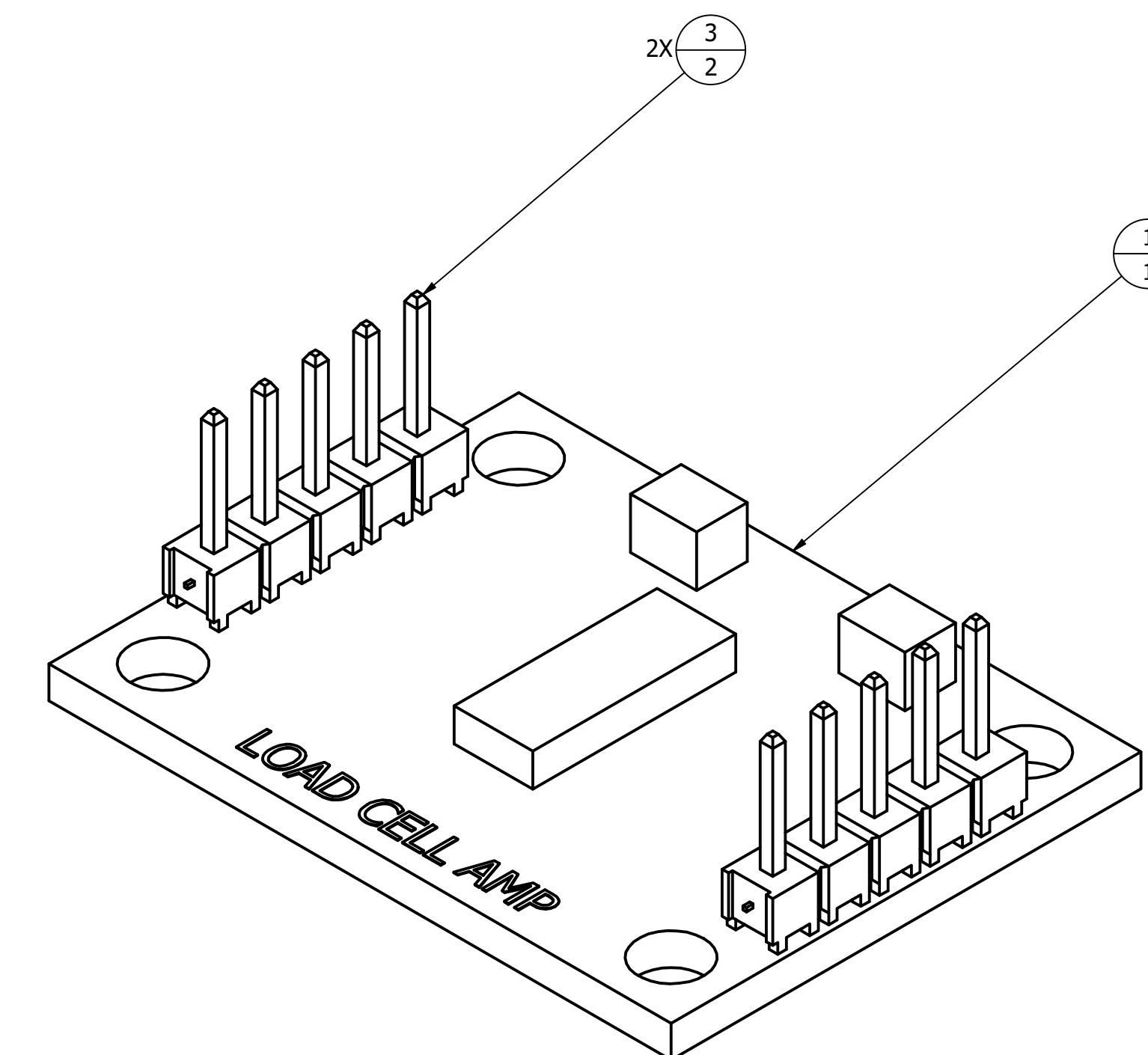
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-4 LOAD CELL AMP ASSEM

NOTE:

1. SOLDER ALL JOINTS IN ACCORDANCE WITH MIL-S-45473E

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ES50732-1	LOAD CELL AMP
3	2	ES50020-3	TERMINAL STRIP



 Paravion® Inc. Technology	TITLE			DRAWING NUMBER	
	CONTROL BOX ASSEMBLY			RT-6100	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ±.1 .XX = ±.05 .XXX = ±.010 ANGLES = ± 1° THREADS: INTERNAL CLASS 2B EXTERNAL CLASS 2A					
DRAWN BY	CHK'D BY	APRVD. BY	DATE	REV	ECO
KEW	LS		9/8/16		
DO NOT SCALE DRAWING					
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SHEET
6 OF 17

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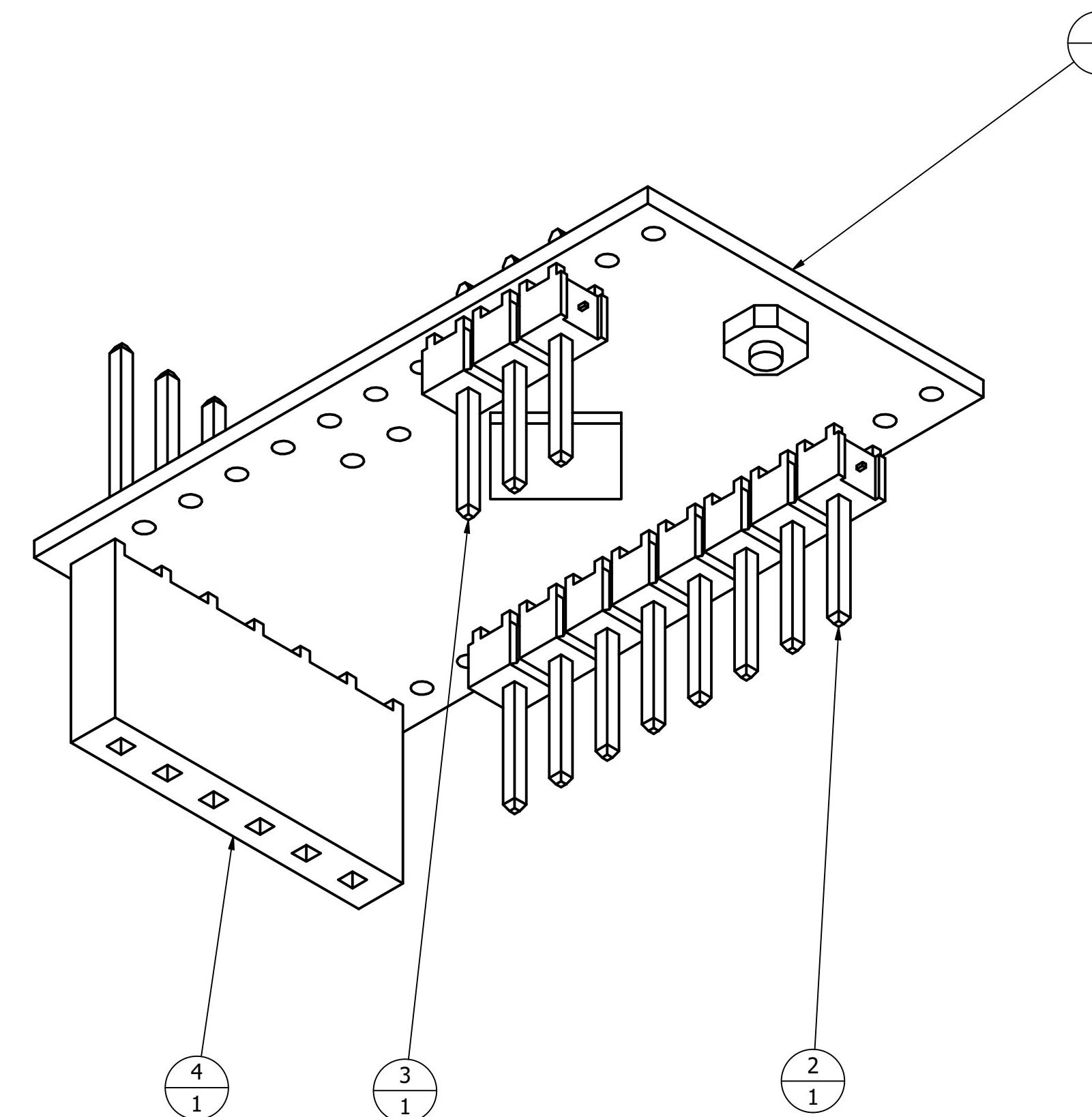
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-5 ARDUINO PRO MINI ASSEM

NOTE:
1. SOLDER ALL JOINTS IN ACCORDANCE WITH MIL-S-45473E

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ES50731-1	ARDUINO PRO MINI
2	1	ES50020-5	TERMINAL STRIP
3	1	ES50020-1	TERMINAL STRIP
4	1	ES50015-7	SOCKET STRIP



 Paravion® Inc. <i>Technology</i>	TITLE			DRAWING NUMBER	
	CONTROL BOX ASSEMBLY			RT-6100	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ±.1 .XX = ±.05 .XXX = ±.010 ANGLES = ± 1° THREADS: INTERNAL CLASS 2B EXTERNAL CLASS 2A					
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KEW	LS		9/8/16		
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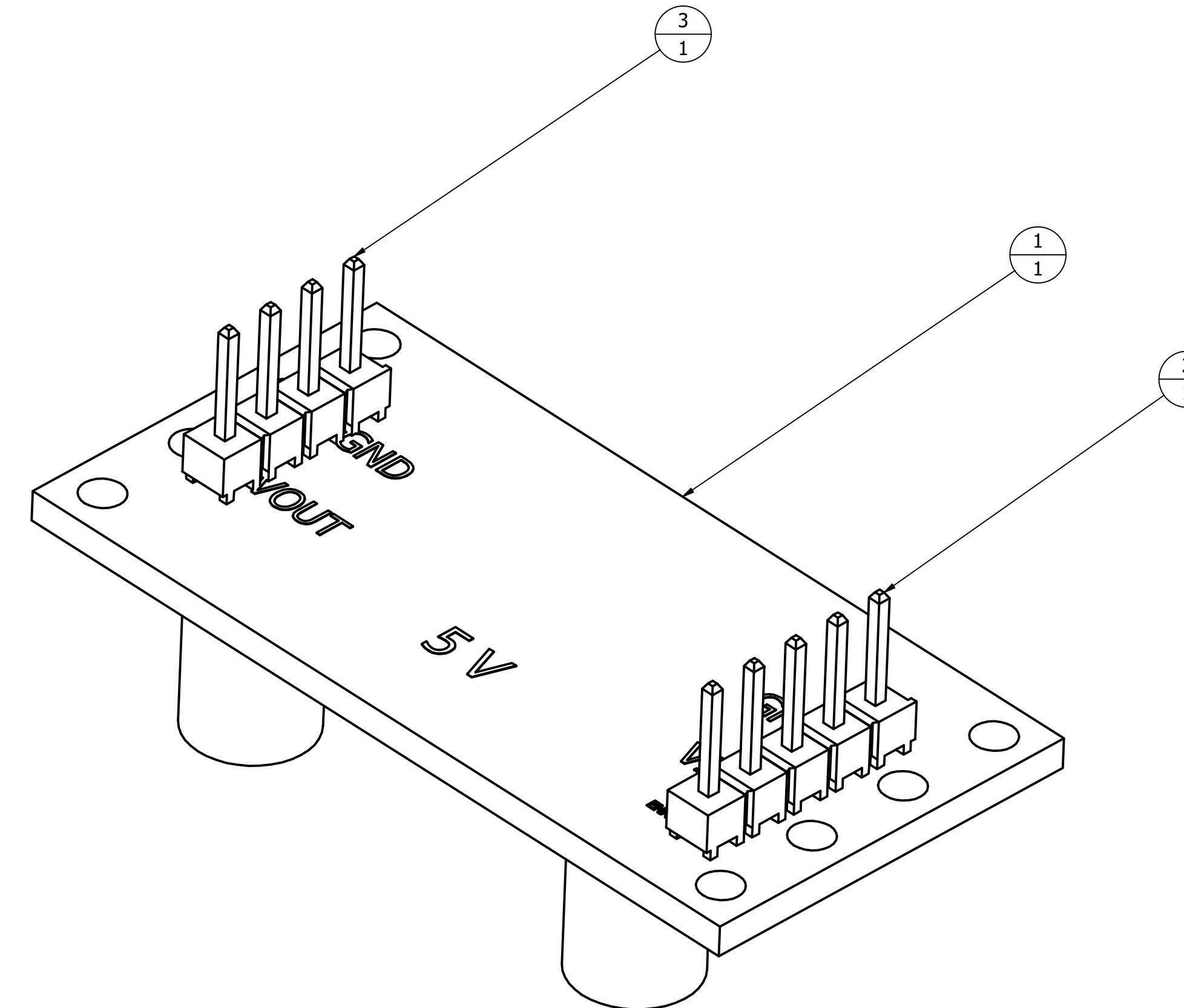
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-6 VOLTAGE REGULATOR ASSEM

NOTE:
1. SOLDER ALL JOINTS IN ACCORDANCE WITH MIL-S-45473E

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ES50055-1	VOLTAGE REGULATOR
2	1	ES50020-3	TERMINAL STRIP
3	1	ES50020-2	TERMINAL STRIP



 Paravion® Inc. <i>Technology</i>	TITLE			DRAWING NUMBER	
	CONTROL BOX ASSEMBLY			RT-6100	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ±.1 .XX = ±.05 .XXX = ±.010 ANGLES = ± 1°					
DRAWN BY	CHK'D BY	APPRVD. BY	DATE	REV	ECO
KEW	LS		9/8/16		
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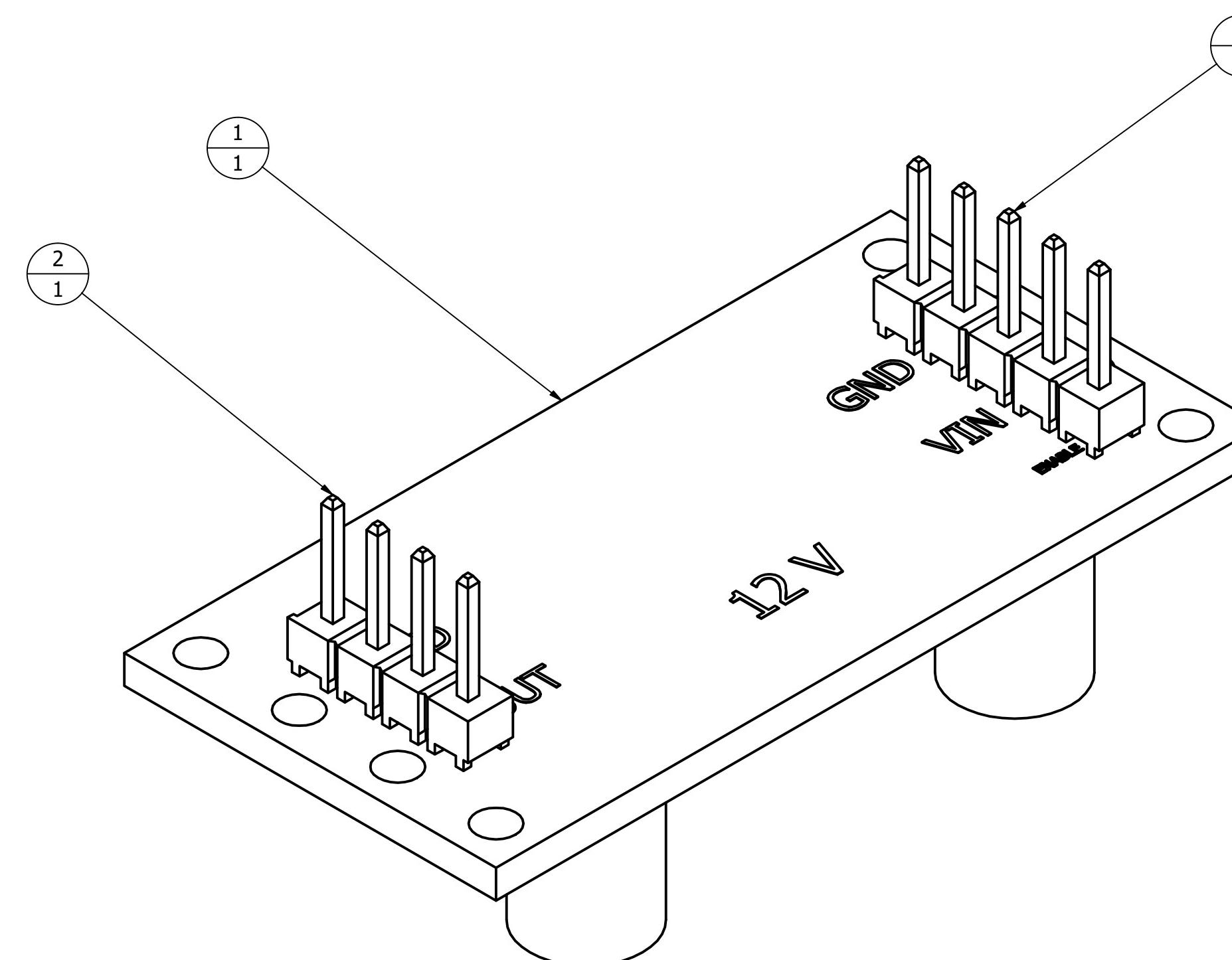
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-7 VOLTAGE REGULATOR ASSEM

NOTE:
1. SOLDER ALL JOINTS IN ACCORDANCE WITH MIL-S-45473E

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ES50055-2	VOLTAGE REGULATOR
2	1	ES50020-2	TERMINAL STRIP
3	1	ES50020-3	TERMINAL STRIP



 Paravion® Inc. <i>Technology</i>	TITLE			DRAWING NUMBER	
	CONTROL BOX ASSEMBLY			RT-6100	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ±.1 .XX = ±.05 .XXX = ±.010 ANGLES = ± 1°					
DRAWN BY	CHK'D BY	APRVD. BY	DATE	REV	ECO
KEW	LS		9/8/16		
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PROTO

3RD ANGLE PROJECTION

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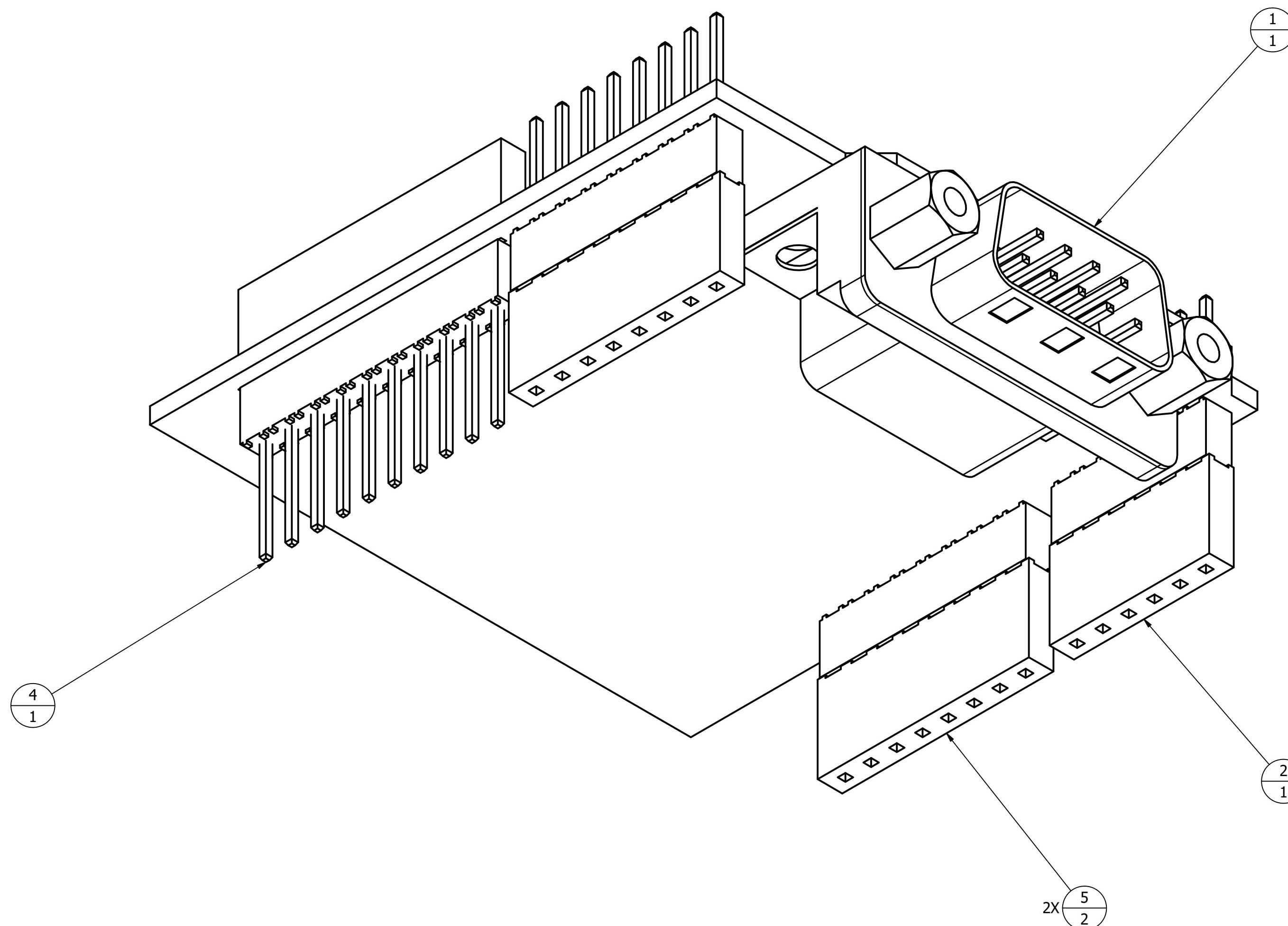
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-8 CAN-BUS ASSEM

NOTE:
1. SOLDER ALL JOINTS IN ACCORDANCE WITH MIL-S-45473E

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ES50734-1	CAN-BUS
2	1	ES50015-1	SOCKET STRIP
5	2	ES50015-2	SOCKET STRIP
4	1	ES50015-3	SOCKET STRIP



 Paravion® Inc. <i>Technology</i>	TITLE			DRAWING NUMBER	
	CONTROL BOX ASSEMBLY			RT-6100	
DRAWN BY	CHK'D BY	APRVD. BY	DATE	REV	ECO
KEW	LS		9/8/16		
DO NOT SCALE DRAWING					
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PROTO

3RD ANGLE PROJECTION

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-10 ENCLOSURE

MAKE FROM: ES59002-1

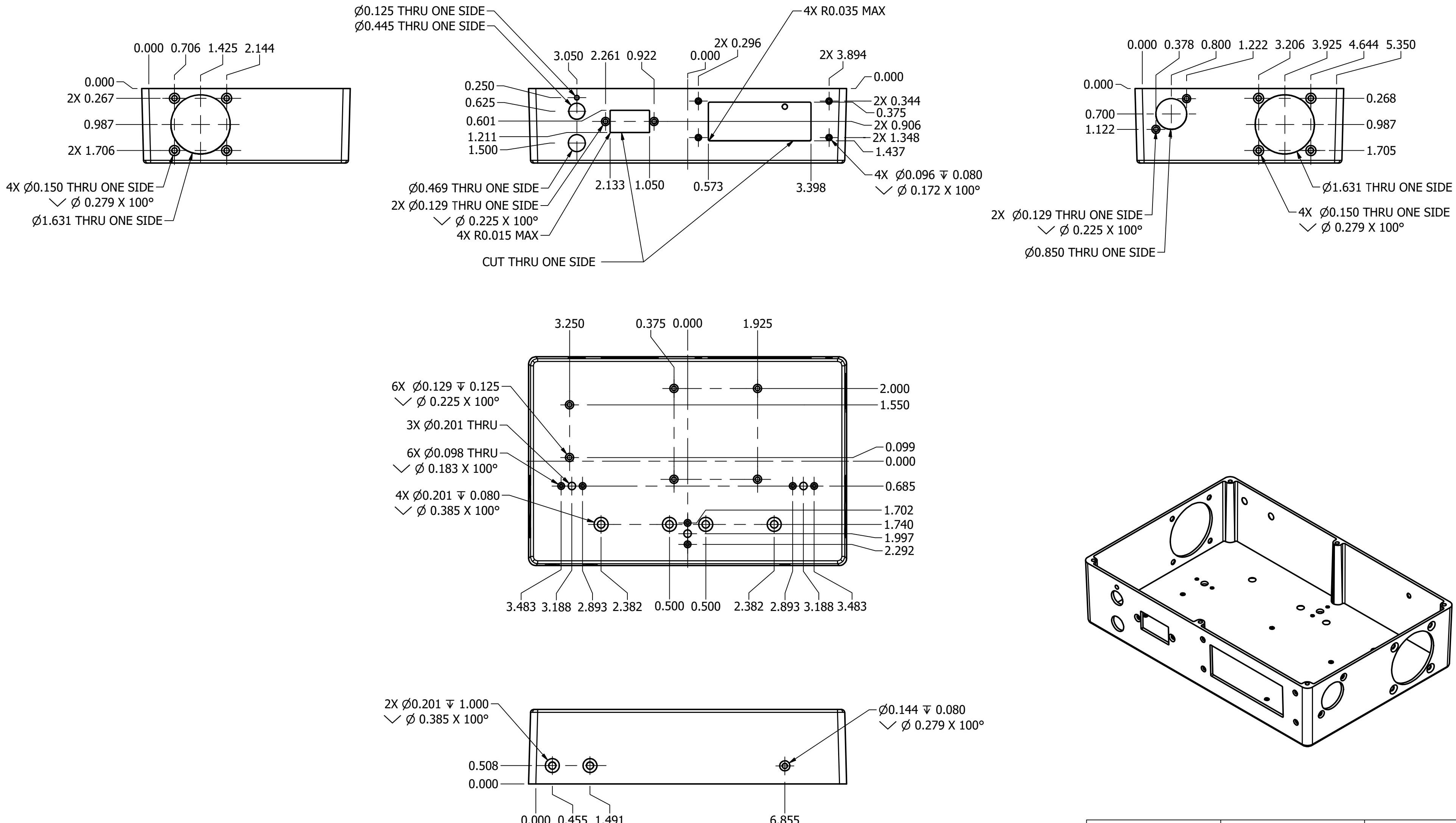
VENDOR: BUD INDUSTRIES INC.

FINISH: BLACK POLYURETHANE POWDER COAT CARDINAL C241-BK303 (BOTH ENCLOSURE AND COV

NOTE:

- #### NOTE:

1. COVER AND COVER HARDWARE NOT SHOWN



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Paravion[®]
Technology In

	TITLE	DRAWING NUMBER
C.	CONTROL BOX ASSEMBLY	BT 6100

S	CONTRACE BOX ASSEMBLY				RT-0100	
	DRAWN BY	CHK'D BY	APRVD. BY	DATE	REV E	ECO
	KEW	LS		9/8/16		
 	DO NOT SCALE DRAWING					
3RD ANGLE PROJECTION	© 2017 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.				SHEET 11 OF 17	

OF 11 OF 17

4

3

2

1

-11 SUPPORT

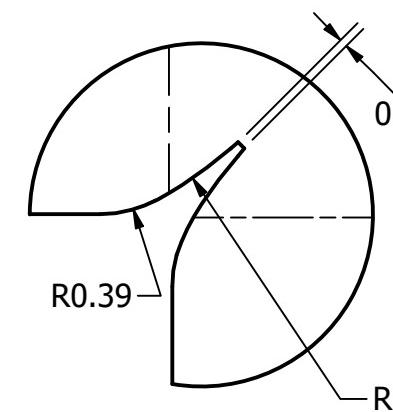
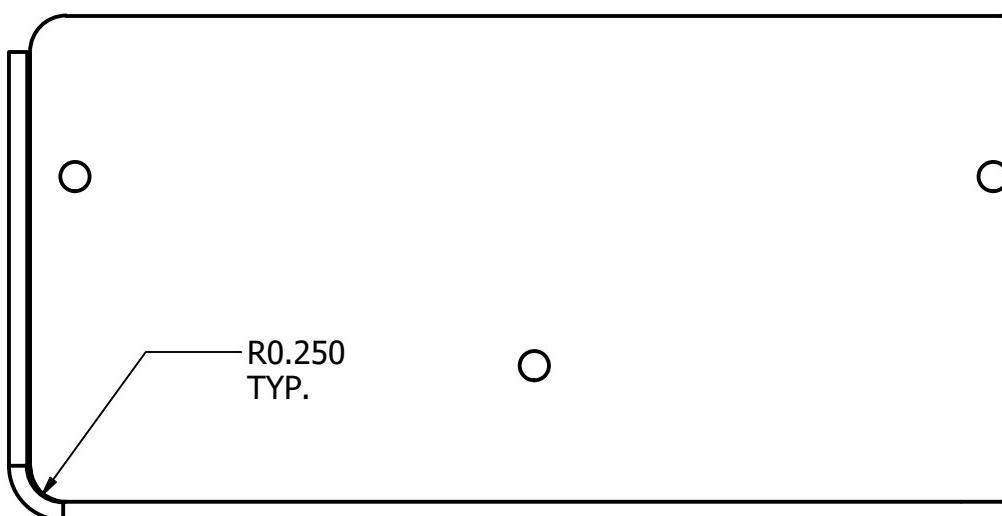
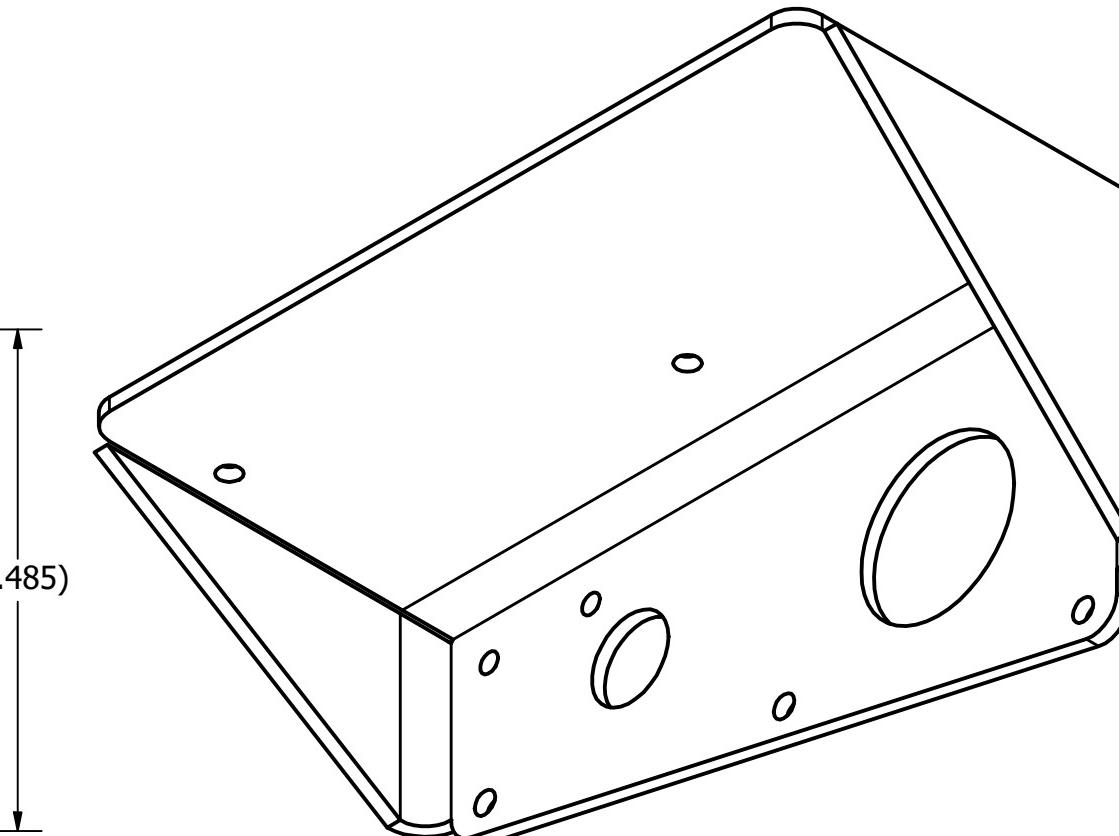
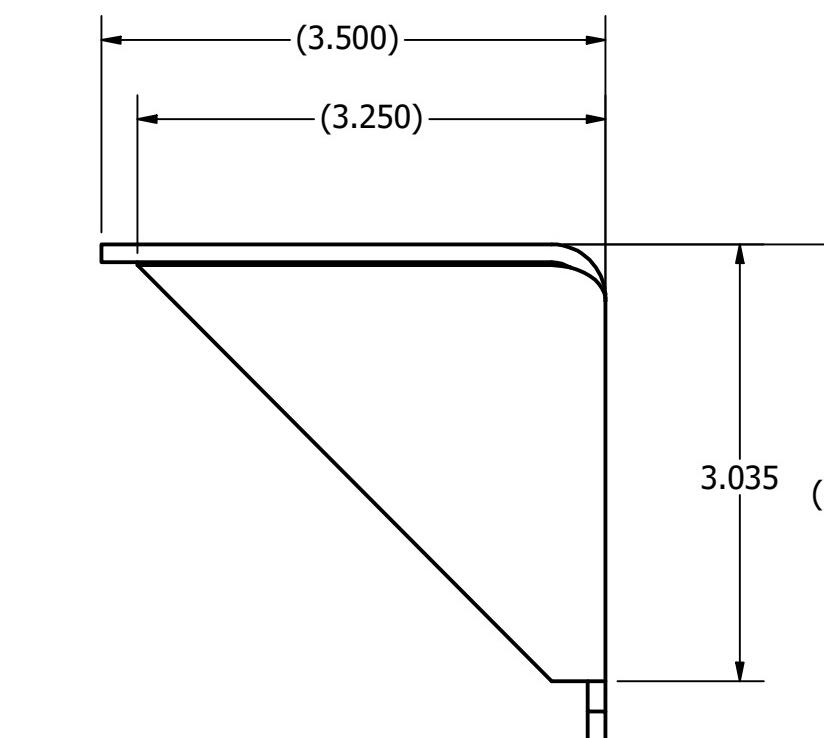
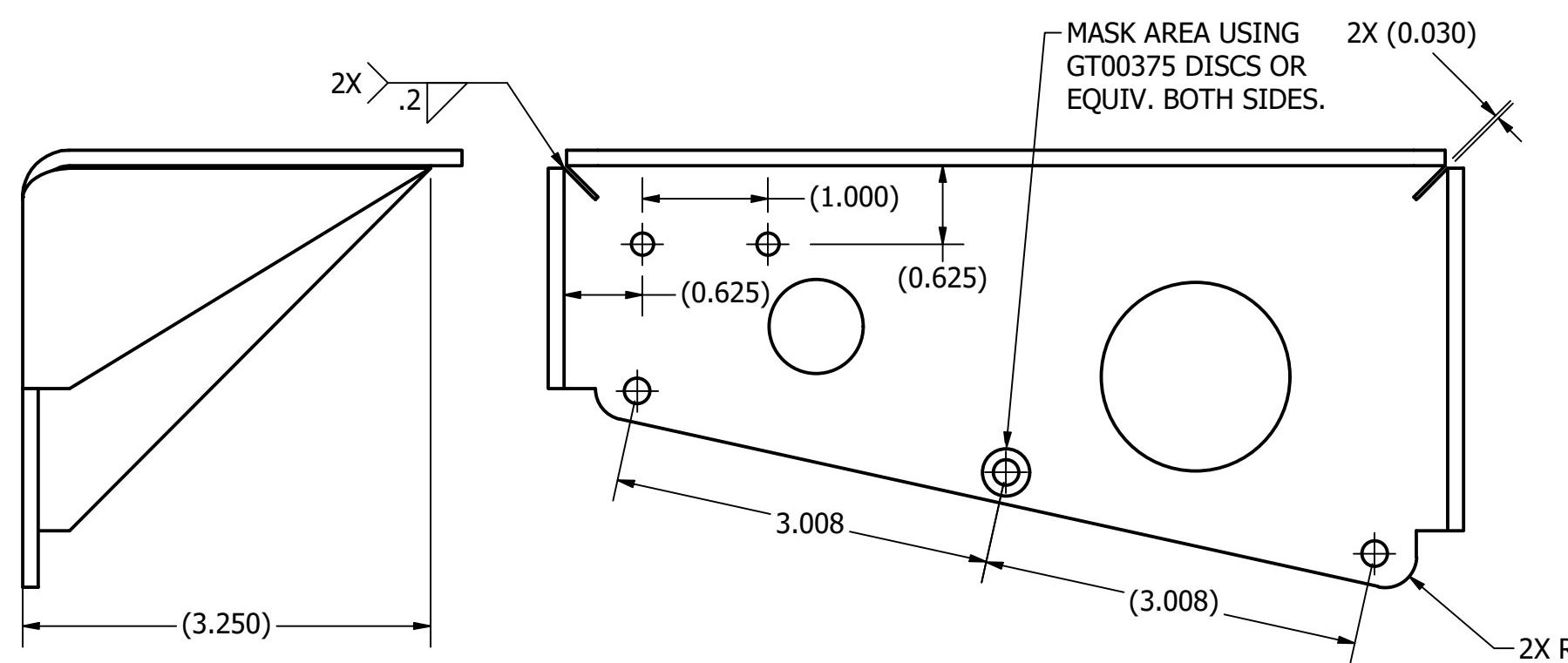
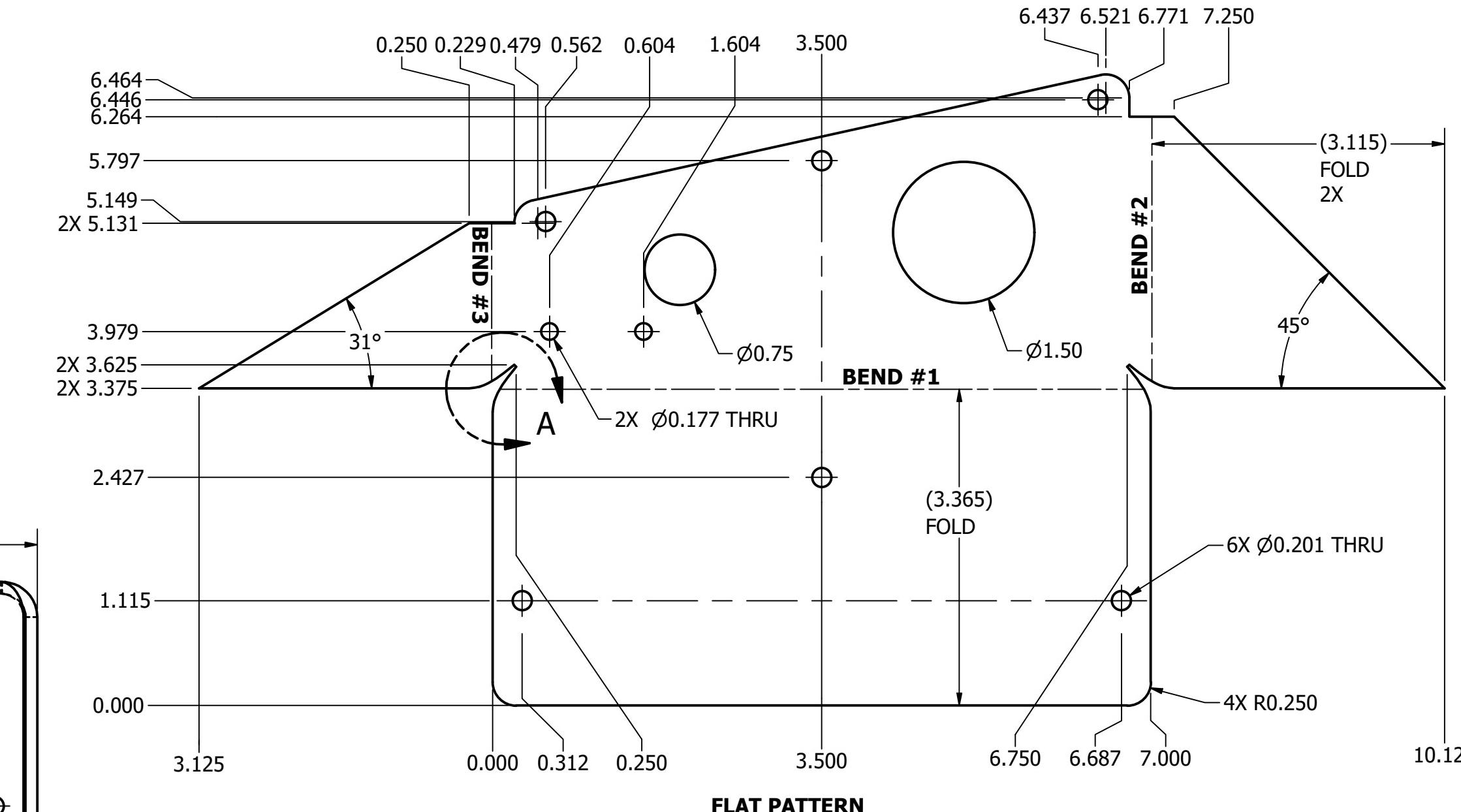
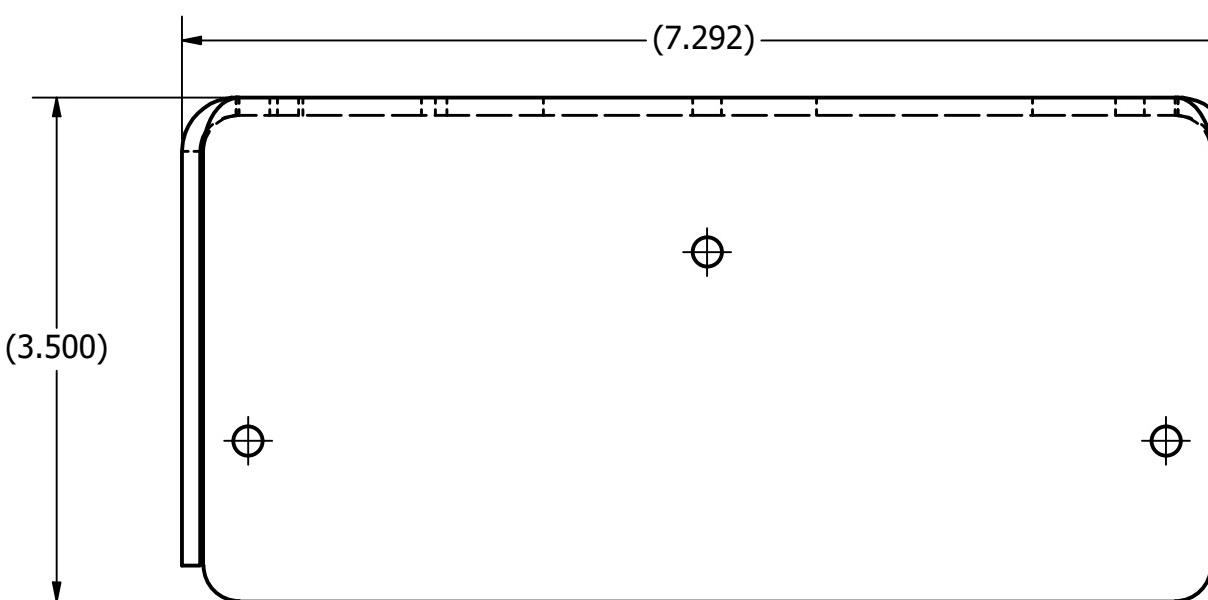
MATERIAL: .125" THICK 6061-T6 AMS 4150, AMS 4160, AMS 4161, AMS 4172, AMS 4173, AMS-QQ-A-200/8

FINISH: ANODIZE PER MIL-A-8625 TYPE II, CLASS 2, COLOR: BLACK

NOTE:

1. WELD PER EPS-1003 CLASS C

BEND CHART			
.	BEND #1	BEND #2	BEND #3
PUNCH	#15	#15	#15
DIE	#16	#16	#16
ANGLE	69	69	69
DIMENSION	3.395	3.136	3.136

DETAIL A
2 PLACES**BREAK ALL SHARP EDGES**

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Paravion®
Technology Inc.

TITLE
CONTROL BOX ASSEMBLY

DRAWING NUMBER
RT-6100

DRAWN BY
KEW

CHK'D BY
LS

APRVD. BY
9/8/16

DATE
REV
E

DO NOT SCALE DRAWING

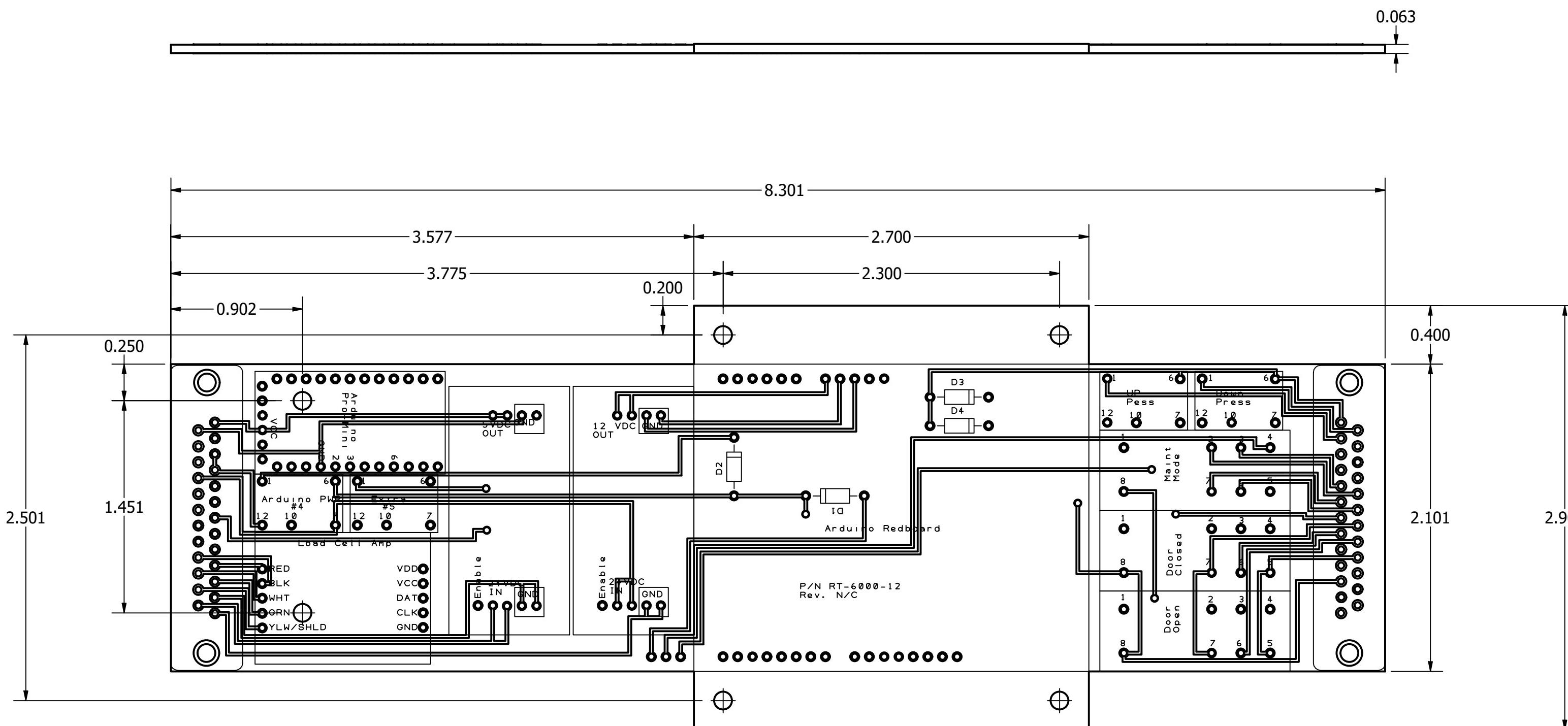
ECO
SHEET

3RD ANGLE PROJECTION

12 OF 17

-12 MAIN CIRCUIT BOARD

VENDOR: ADVANCED CIRCUITS - PART NUMBER: RT-6100-12
MATERIAL: FR4
STOCK: 0.062" THICK
FINISH: NONE



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 Paravion® Technology Inc.	TITLE			DRAWING NUMBER		
	CONTROL BOX ASSEMBLY			RT-6100		
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ± .1 .XX = ± .05 .XXX = ± .010 ANGLES = ± 1°	DRAWN BY	CHK'D BY	APRVD. BY	DATE	REV	ECO
	KEW	LS		9/8/16		
		DO NOT SCALE DRAWING			SHEET	
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ROTO	3RD ANGLE PROJECTION					

4

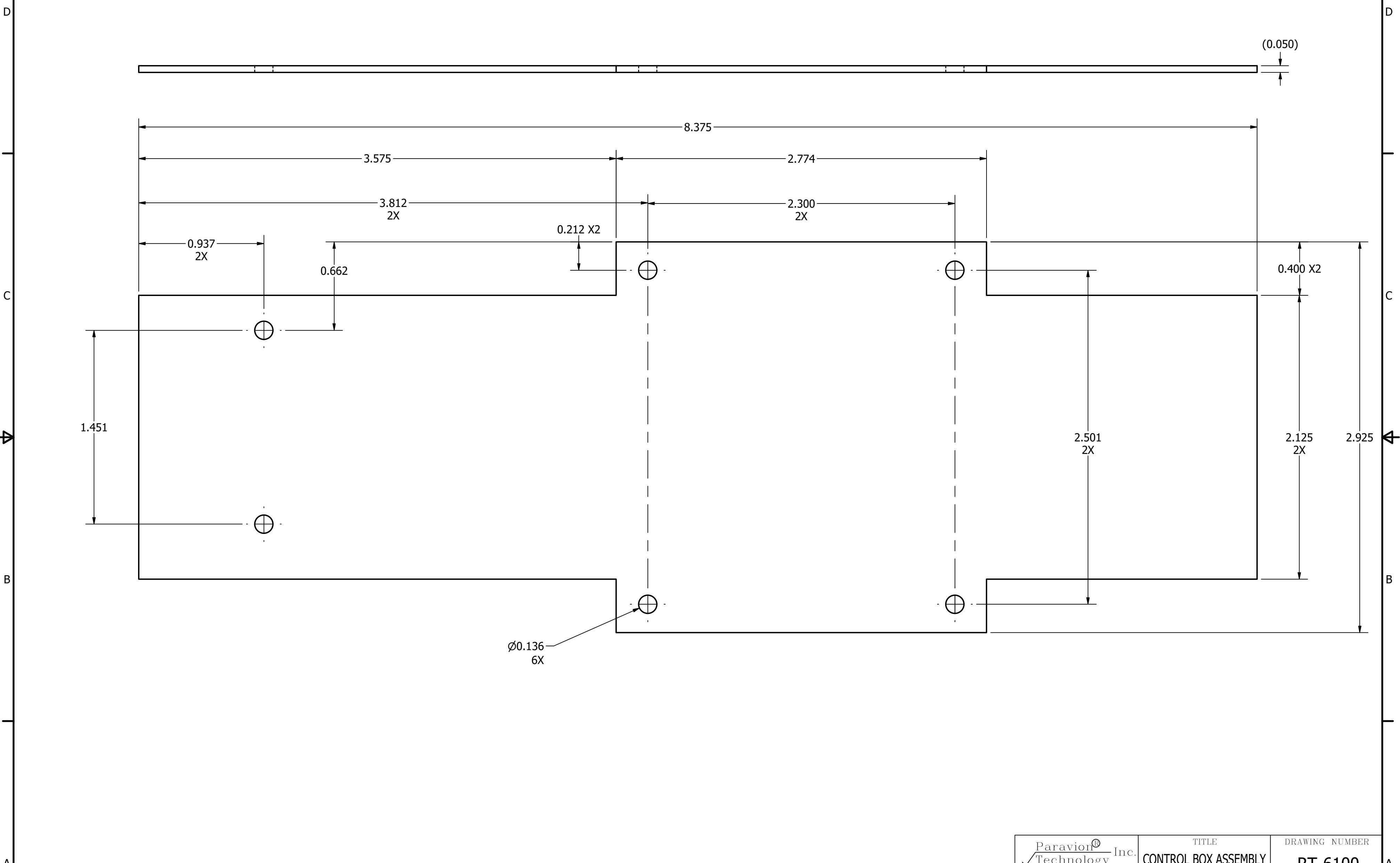
3

2

1

-13 ISOLATOR

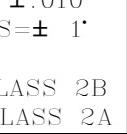
MATERIAL: ES00130-1 NEOPRENE SHEET
 FINISH: NONE



Paravion® Inc.		TITLE			DRAWING NUMBER	
		CONTROL BOX ASSEMBLY			RT-6100	
DIMENSIONS IN INCHES		TOLERANCES EXCEPT WHERE NOTED:				
.X	= ±.1				DATE	
.XX	= ±.05				9/8/16	
.XXX	= ±.010				REV	
		ANGLES = ± 1°			E	
THREADS:		INTERNAL CLASS 2B			ECO	
3RD ANGLE PROJECTION		EXTERNAL CLASS 2A				
DO NOT SCALE DRAWING					SHEET	
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PROTO

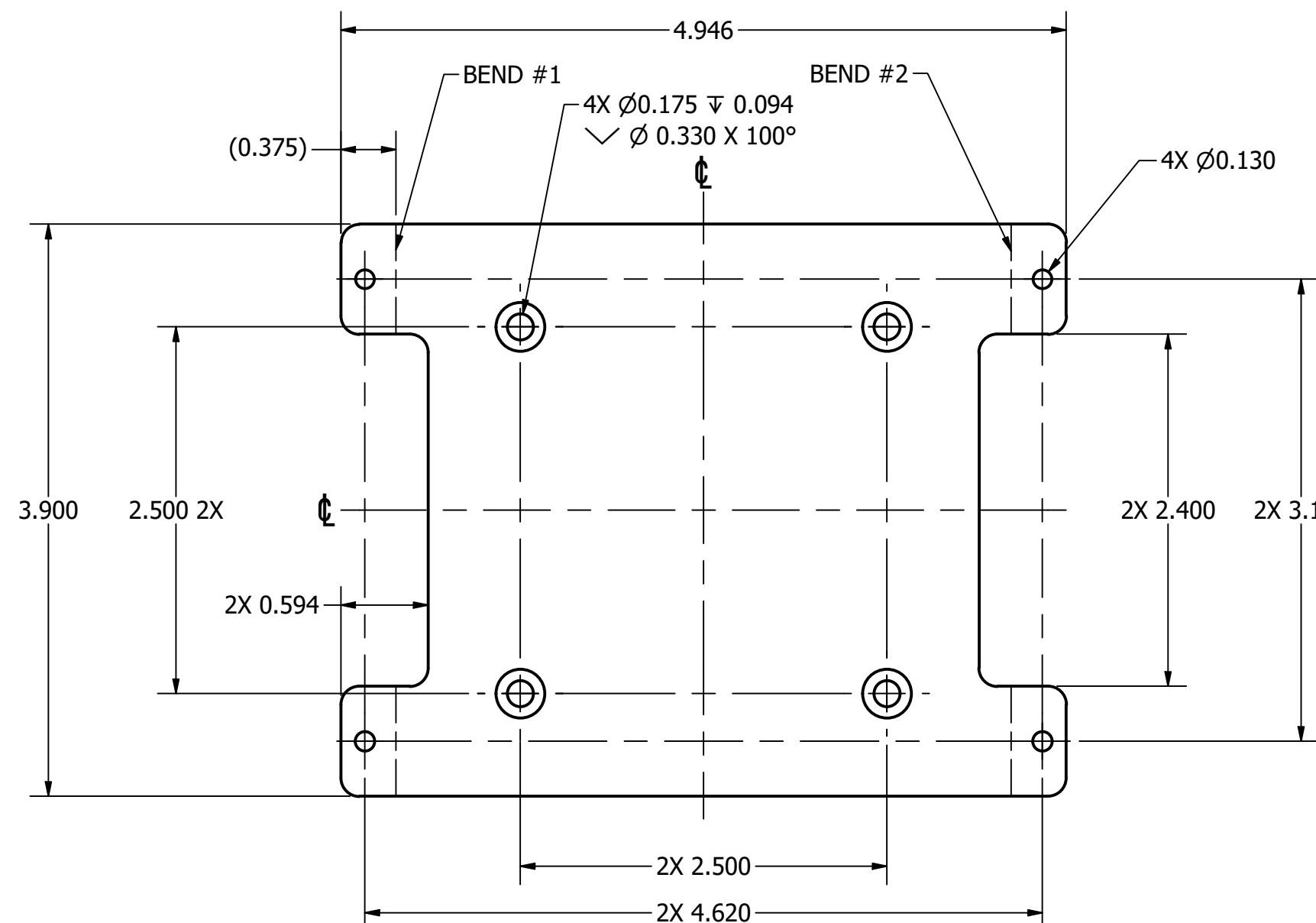


-17 BRACKET

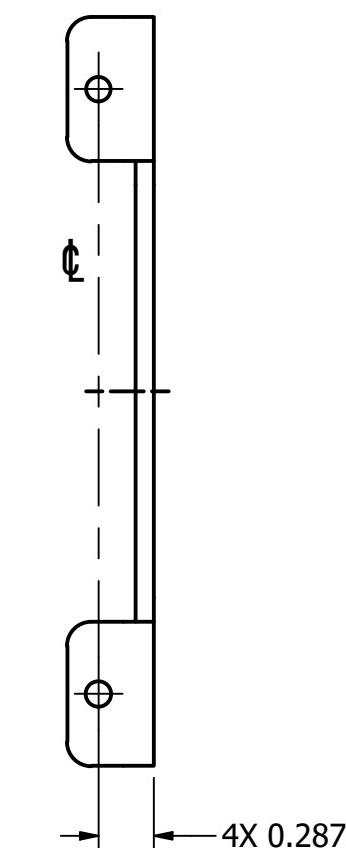
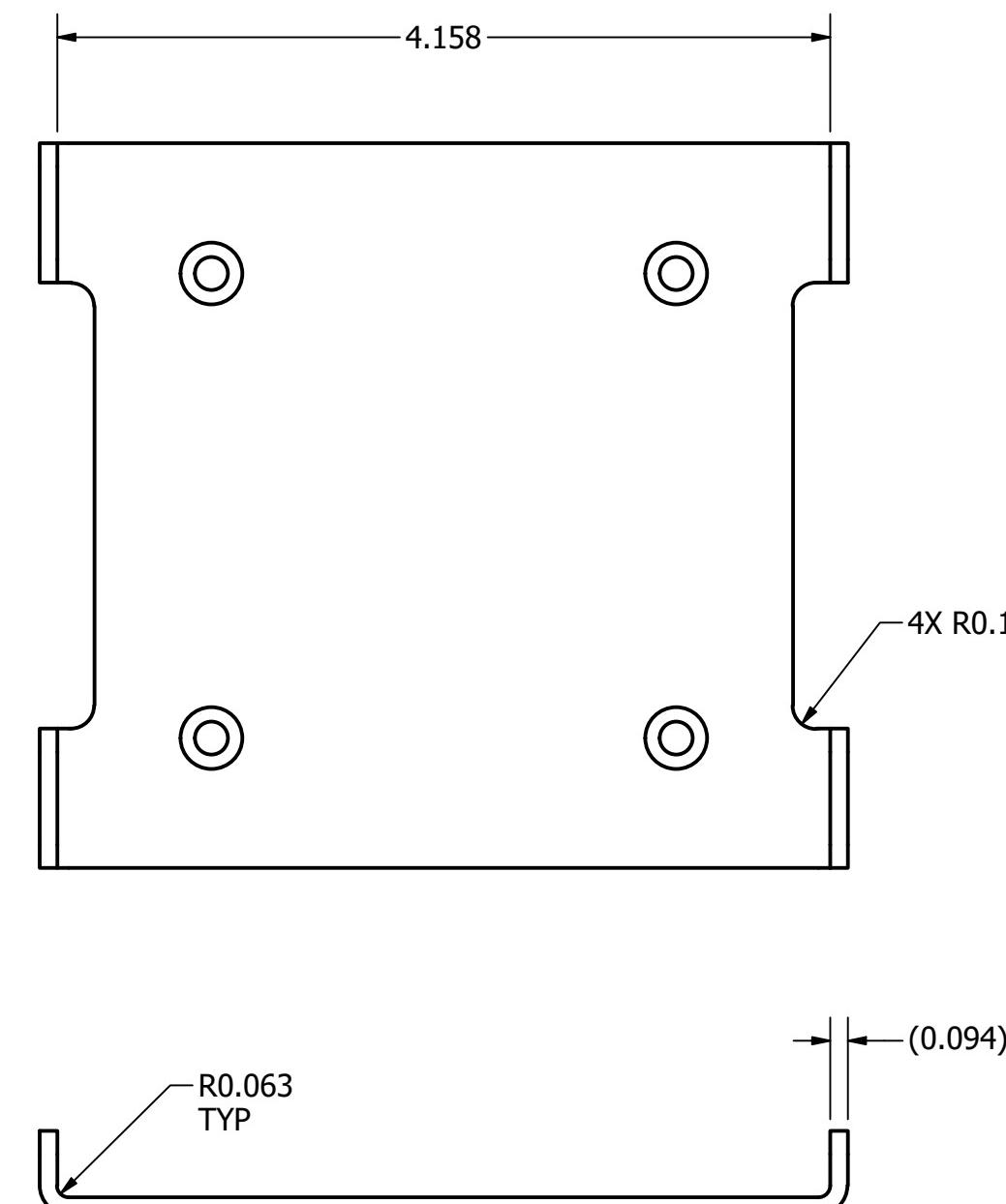
MATERIAL: 300 SERIES S.S.,AMS 5901, AMS 5576, AMS 5573, AMS 5324

STOCK SIZE: 13 GA

FINISH: NONE

FLAT PATTERN

BEND CHART		
.	BEND #1	BEND #2
PUNCH	#21	#21
DIE	#15	#15
ANGLE	80	80
DIMENSION	.372	.372



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Paravion® Inc.
Technology

DIMENSIONS IN INCHES
TOLERANCES EXCEPT
WHERE NOTED:
.X = ±.1
.XX = ±.05
.XXX = ±.010
ANGLES = ± 1°
THREADS:
INTERNAL CLASS 2B
EXTERNAL CLASS 2A

PROTO

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TITLE				DRAWING NUMBER	
CONTROL BOX ASSEMBLY				RT-6100	
DRAWN BY	CHK'D BY	APRVD. BY	DATE	REV	ECO
KEW	LS		9/8/16	E	
DO NOT SCALE DRAWING					
SHEET					

15 OF 17

4

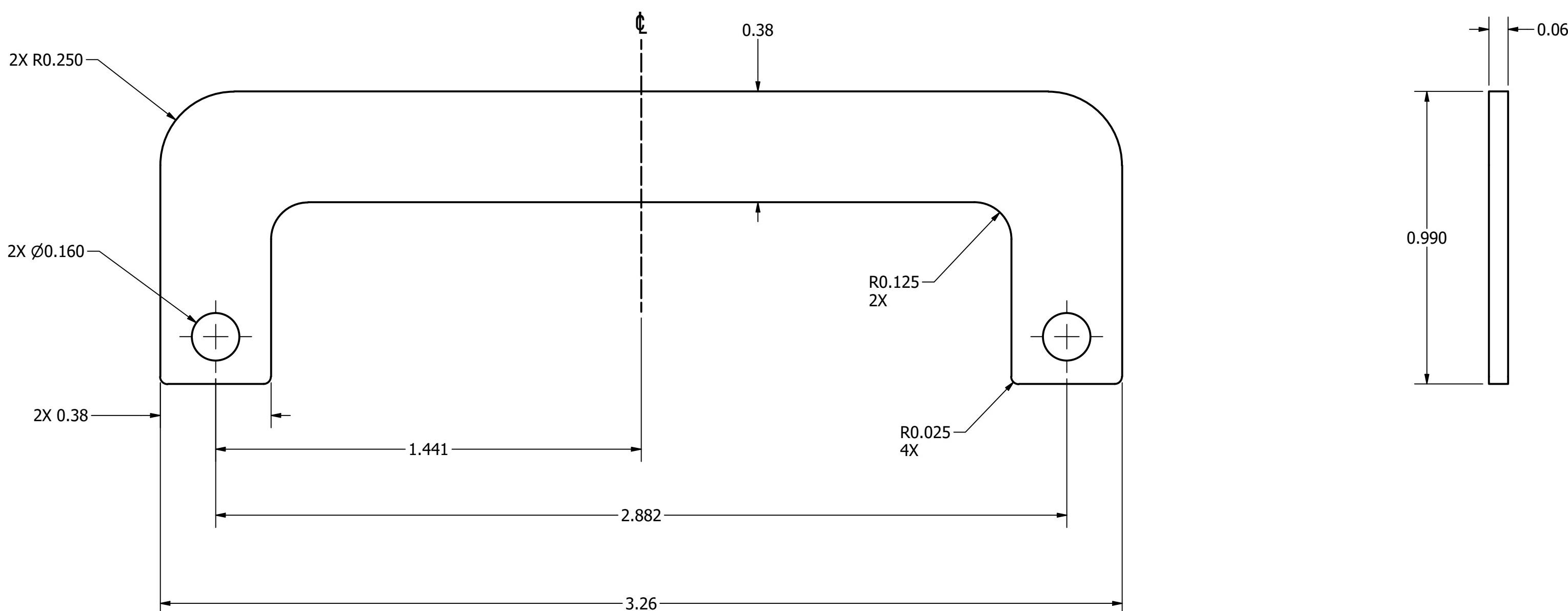
3

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1

-18 JUMPER BRACKET

MATERIAL: 6061-T6, AMS 4025, AMS 4027, AMS-QQ-A-250/11
 STOCK SIZE: 0.063" THICK
 FINISH: NONE



NOTE:
DEBURR AND BREAK ALL SHARP EDGES

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TITLE
CONTROL BOX ASSEMBLY DRAWING NUMBER
RT-6100

DIMENSIONS IN INCHES		TOLERANCES EXCEPT WHERE NOTED:			
DRAWN BY	CHK'D BY	APPRVD. BY	DATE	REV	ECO
KEW	LS		9/8/16	E	

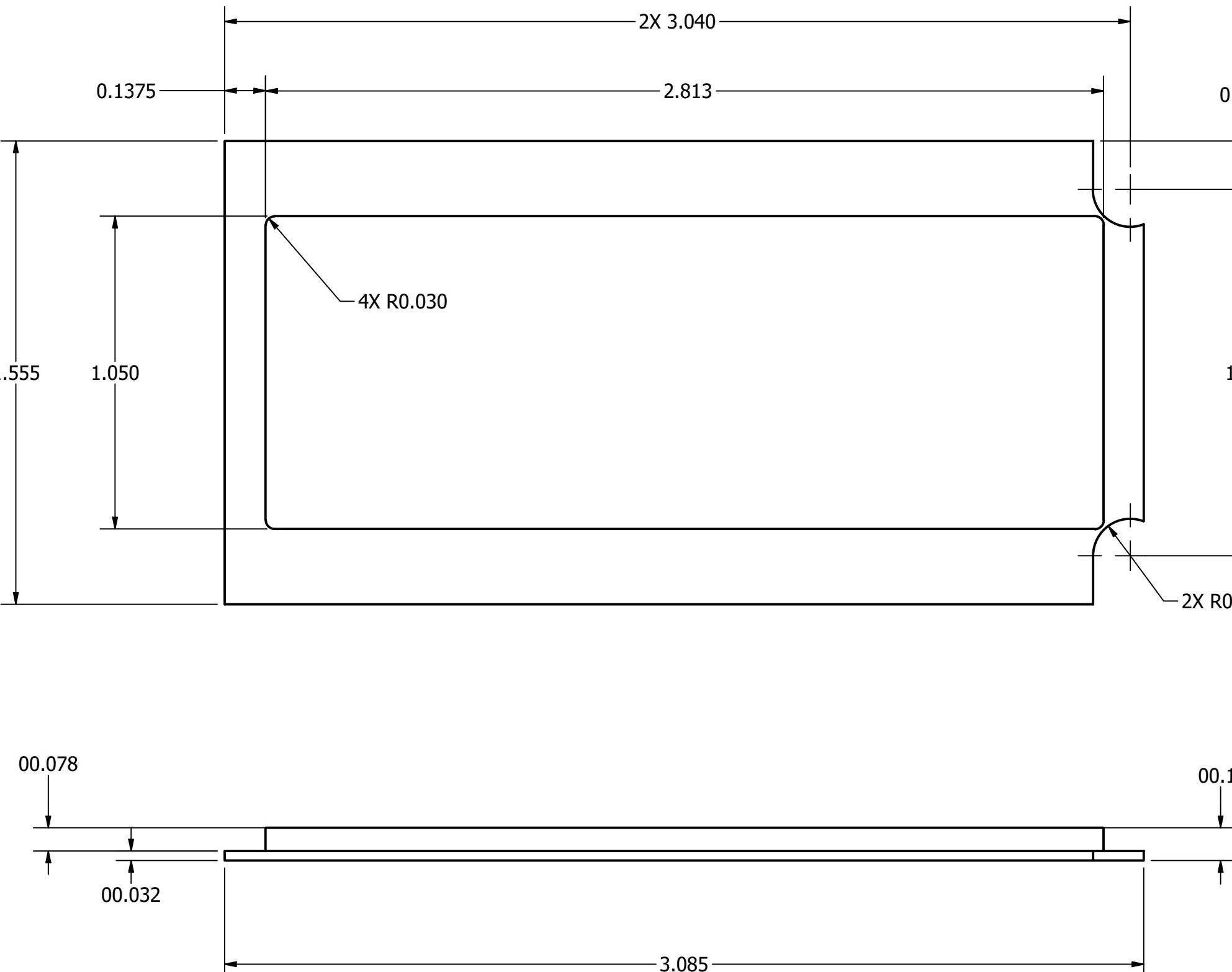
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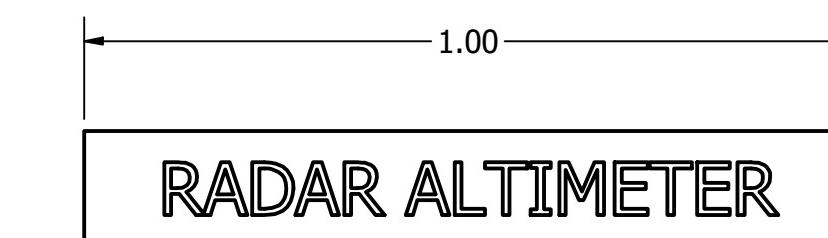
16 OF 17

-19 ELECTRONIC BOX WINDOW

MATERIAL: CLEAR ACRYLIC SHEET
 STOCK SIZE: 0.110" THICK
 FINISH: NONE

**-20 TUBE**

TUBE MATERIAL: IDENT SHRINK TUBE P/N MS23053/5-107-9,
 ALT. P/N HS2M-3/16-WHITE-200 PER AMS-DTL-23053/5, CLASS 1+2.
 TUBE FONT: 0.140 HIGH LETTERING, ARIAL FONT.



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		CONTROL BOX ASSEMBLY			RT-6100	
DRAWN BY	CHK'D BY	APRVD. BY	DATE	REV	ECO	
KEW	LS		9/8/16			E
DO NOT SCALE DRAWING		SHEET				
		17 OF 17				

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PROTO

3A

3RD ANGLE
PROJECTION

INTERNAL CLASS 2B

EXTERNAL CLASS 2A

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